

**lenovo**

# *Lenovo S41/U41*

*S41-35*

*S41-70*

*S41-75*

*U41-70*

*Hardware  
Maintenance  
Manual*

**Notes:**

- Before using this information and the product it supports, be sure to read the general information under “Notices” on page 71.

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## About this manual

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This manual contains service and reference information for the following Lenovo product:

**Lenovo S41/U41**

Use this manual to troubleshoot problems.

The manual is divided into the following sections:

- The common sections provide general information, guidelines, and safety information required for servicing computers.
- The product-specific section includes service, reference, and product-specific parts information.

**Important:**

This manual is intended only for trained servicers who are familiar with Lenovo products. Use this manual to troubleshoot problems effectively.

Before servicing a Lenovo product, make sure to read all the information under “Safety information” on page 1 and “Important service information” on page 16.

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## **Safety information**

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This chapter presents the following safety information that you need to get familiar with before you service a Lenovo Yoga 2 13 computer:

- “General safety” on page 2
- “Electrical safety” on page 3
- “Safety inspection guide” on page 5
- “Handling devices that are sensitive to electrostatic discharge” on page 6
- “Grounding requirements” on page 6
- “Safety notices: multilingual translations” on page 7
- “Laser compliance statement” on page 14

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## General safety

Follow these rules below to ensure general safety:

- Observe a good housekeeping in the area where the machines are put during and after the maintenance.
- When lifting any heavy object:
  1. Make sure that you can stand safely without slipping.
  2. Distribute the weight of the object equally between your feet.
  3. Use a slow lifting force. Never move suddenly or twist when you attempt to lift it.
  4. Lift it by standing or pushing up with your leg muscles; this action could avoid the strain from the muscles in your back. Do not attempt to lift any object that weighs more than 16 kg (35 lb) or that you think is too heavy for you.
- Do not perform any action that causes hazards to the customer, or that makes the machine unsafe.
- Before you start the machine, make sure that other service representatives and the customer are not in a hazardous position.
- Please remove covers and other parts in a safe place, away from all personnel, while you are servicing the machine.
- Keep your toolcase away from walk areas so that other people will not trip over it.
- Do not wear loose clothing that can be trapped in the moving parts of the machine. Make sure that your sleeves are fastened or rolled up above your elbows. If your hair is long, fasten it.
- Insert the ends of your necktie or scarf inside clothing or fasten it with the nonconductive clip, about 8 centimeters (3 inches) from the end.
- Do not wear jewelry, chains, metal-frame eyeglasses, or metal fasteners for your clothing.

**Attention:** Metal objects are good electrical conductors.
- Wear safety glasses when you are hammering, drilling, soldering, cutting wire, attaching springs, using solvents, or working in any other conditions that may be hazardous to your eyes.
- After service, reinstall all safety shields, guards, labels, and ground wires. Replace any safety device that is worn or defective.
- Reinstall all covers correctly before returning the machine to the customer.
- Fan louvers on the machine help to prevent the overheating of internal components. Do not obstruct fan louvers or cover them with labels or stickers.

## **Electrical safety**

Observe the following rules when working on electrical equipments.

### **Important:**

Use only approved tools and test equipments. Some hand tools have handles covered with a soft material that does not insulate you when working with live electrical currents.

Many customers have rubber floor mats near their machines that contain small conductive fibers to decrease electrostatic discharges. Do not use such kind of mat to protect yourself from electrical shock.

- Find the room emergency power-off (EPO) switch, disconnecting switch or electrical outlet. If an electrical accident occurs, you can then operate the switch or unplug the power cord quickly.
- Do not work alone under hazardous conditions or near the equipment that has hazardous voltages.
- Disconnect all power before:
  - Performing a mechanical inspection
  - Working near power supplies
  - Removing or installing main units
- Before you start to work on the machine, unplug the power cord. If you cannot unplug it, ask the customer to power-off the wall box that supplies power to the machine, and to lock the wall box in the off position.
- If you need to work on a machine that has exposed electrical circuits, observe the following precautions:
  - Ensure that another person, familiar with the power-off controls, is near you.
  - **Attention:** Another person must be there to switch off the power, if necessary.
  - Use only one hand when working with powered-on electrical equipment; keep the other hand in your pocket or behind your back.
- **Attention:** An electrical shock can occur only when there is a complete circuit. By observing the above rule, you may prevent a current from passing through your body.
- When using testers, set the controls correctly and use the approved probe leads and accessories for that tester.
- Stand on suitable rubber mats (obtained locally, if necessary) to insulate you from grounds such as metal floor strips and machine frames.

Observe the special safety precautions when you work with very high voltages; instructions for these precautions are in the safety sections of maintenance information. Be extremely careful when you measure the high voltages.

- Regularly inspect and maintain your electrical hand tools for safe operational condition.
- Do not use worn or broken tools and testers.
- Never assume that power has been disconnected from a circuit. First, check it to make sure that it has been powered off.

- Always look carefully for possible hazards in your work area. Examples of these hazards are moist floors, nongrounded power extension cables, power surges, and missing safety grounds.
- Do not touch live electrical circuits with the reflective surface of a plastic dental mirror. The surface is conductive; such touching can cause personal injury and machine damage.
- Do not service the following parts with the power on when they are removed from their normal operating places in a machine:
  - Power supply units
  - Pumps
  - Blowers and fans
  - Motor generatorsand similar units. (This practice ensures correct grounding of the units.)
- If an electrical accident occurs:
  - Caution: do not become a victim yourself.
  - Switch off the power.
  - Send the victim to get medical aid.

## **Safety inspection guide**

The purpose of this inspection guide is to assist you in identifying potential unsafe conditions. As each machine was designed and built, required safety items were installed to protect users and service personnel from injury. This guide addresses only those items. You should use good judgment to identify potential safety hazards according to the attachment of non-Lenovo features or options not covered by this inspection guide.

If any unsafe conditions are present, you must determine how serious the apparent hazard could be and whether you can continue without first correcting the problem.

Consider these conditions and the safety hazards they present:

- Electrical hazards, especially primary power (primary voltage on the frame can cause serious or fatal electrical shock)
- Explosive hazards, such as a damaged CRT face or a bulging capacitor
- Mechanical hazards, such as loose or missing hardware

To determine whether there are any potential unsafe conditions, use the following checklist at the beginning of every service task. Begin the checks with the power off, and the power cord disconnected.

Checklist:

1. Check exterior covers for damage (loose, broken, or sharp edges).
2. Turn off the computer. Disconnect the power cord.
3. Check the power cord for:
  - a. A third-wire ground connector in good condition. Use a meter to measure third-wire ground continuity for 0.1 ohm or less between the external ground pin and the frame ground.
  - b. The power cord should be the type specified in the parts list.
  - c. Insulation must not be frayed or worn.
4. Check for cracked or bulging batteries.
5. Remove the cover.
6. Check for any obvious non-Lenovo alterations. Use good judgment as to the safety of any non-Lenovo alterations.
7. Check inside the unit for any obvious unsafe conditions, such as metal filings, contamination, water or other liquids, or signs of fire or smoke damage.
8. Check for worn, frayed, or pinched cables.
9. Check that the power-supply cover fasteners (screws or rivets) have not been removed or tampered with.

## Handling devices that are sensitive to electrostatic discharge

Any computer part containing transistors or integrated circuits (ICs) should be considered sensitive to electrostatic discharge (ESD). ESD damage can occur when there is a difference in charge between objects. Protect against ESD damage by equalizing the charge so that the machine, the part, the work mat, and the person handling the part are all at the same charge.

### Notes:

1. Use product-specific ESD procedures when they exceed the requirements noted here.
2. Make sure that the ESD protective devices you use have been certified (ISO 9000) as fully effective.

When handling ESD-sensitive parts:

- Keep the parts in protective packages until they are inserted into the product.
- Avoid contact with other people.
- Wear a grounded wrist strap against your skin to eliminate static on your body.
- Prevent the part from touching your clothing. Most clothing is insulative and retains a charge even when you are wearing a wrist strap.
- Use the black side of a grounded work mat to provide a static-free work surface. The mat is especially useful when handling ESD-sensitive devices.
- Select a grounding system, such as those listed below, to provide protection that meets the specific service requirement.

### Note:

The use of a grounding system to guard against ESD damage is desirable but not necessary.

- Attach the ESD ground clip to any frame ground, ground braid, or green-wire ground.
- When working on a double-insulated or battery-operated system, use an ESD common ground or reference point. You can use coax or connector-outside shells on these systems.
- Use the round ground prong of the ac plug on ac-operated computers.

## Grounding requirements

Electrical grounding of the computer is required for operator safety and correct system function. Proper grounding of the electrical outlet can be verified by a certified electrician.

## **Safety notices: multilingual translations**

The safety notices in this section are provided in English, French, German, Hebrew, Italian, Japanese, and Spanish.

### **Safety notice 1**

Before the computer is powered on after FRU replacement, make sure all screws, springs, and other small parts are in place and are not left loose inside the computer. Verify this by shaking the computer and listening for rattling sounds. Metallic parts or metal flakes can cause electrical shorts.

Avant de remettre l'ordinateur sous tension après remplacement d'une unité en clientèle, vérifiez que tous les ressorts, vis et autres pièces sont bien en place et bien fixées. Pour ce faire, secouez l'unité et assurez-vous qu'aucun bruit suspect ne se produit. Des pièces métalliques ou des copeaux de métal pourraient causer un court-circuit.

Bevor nach einem FRU-Austausch der Computer wieder angeschlossen wird, muß sichergestellt werden, daß keine Schrauben, Federn oder andere Kleinteile fehlen oder im Gehäuse vergessen wurden. Der Computer muß geschüttelt und auf Klappergeräusche geprüft werden. Metallteile oder-splitter können Kurzschlüsse erzeugen.

לאני הפעלת המוחשב לאחר החלפת FRU יש לוודא  
שכל הברגים, הפלגים, והלולז'ים קיימים ואינם מונחים  
בבוכוקם או אינם מושרים לוויו בזווית המוחשב. כדי לוודא  
את מה שבי מוחשב לילקוטי לילוי קולות טקטיות.  
חלי או שבי מוחכת עליילים לאורם קצרים טפליליים.

Prima di accendere l'elaboratore dopo che è stata effettuata la sostituzione di una FRU, accertarsi che tutte le viti, le molle e tutte le altre parti di piccole dimensioni siano nella corretta posizione e non siano sparse all'interno dell'elaboratore. Verificare ciò scuotendo l'elaboratore e prestando attenzione ad eventuali rumori; eventuali parti o pezzetti metallici possono provocare cortocircuiti pericolosi.

FRU の交換後、コンピュータの電源を入れる前に、ねじ、バネ、その他の小さな部品がすべて正しい位置にあり、またコンピュータの内部で緩んでいないことを確認してください。

これを確認するには、コンピュータを振って、カチャカチャと音がしないか確かめます。金属部品や金属破片はショートの原因になることがあります。

Antes de encender el sistema despues de sustituir una FRU, compruebe que todos los tornillos, muelas y demás piezas pequeñas se encuentran en su sitio y no se encuentran sueltas dentro del sistema. Compruébelo agitando el sistema y escuchando los posibles ruidos que provocarían. Las piezas metálicas pueden causar cortocircuitos eléctricos.

## Safety notice 2

### **⚠ DANGER**

Some standby batteries contain a small amount of nickel and cadmium. Do not disassemble a standby battery, recharge it, throw it into fire or water, or short-circuit it. Dispose of the battery as required by local ordinances or regulations. Use only the battery in the appropriate parts listing. Use of an incorrect battery can result in ignition or explosion of the battery.

Certaines batteries de secours contiennent du nickel et du cadmium. Ne les démontez pas, ne les rechargez pas, ne les exposez ni au feu ni à l'eau. Ne les mettez pas en court-circuit. Pour les mettre au rebut, conformez-vous à la réglementation en vigueur. Lorsque vous remplacez la pile de sauvegarde ou celle de l'horloge temps réel, veillez à n'utiliser que les modèles cités dans la liste de pièces détachées adéquate. Une batterie ou une pile inappropriée risque de prendre feu ou d'explorer.

Die Bereitschaftsbatterie, die sich unter dem Diskettenlaufwerk befindet, kann geringe Mengen Nickel und Cadmium enthalten. Sie darf nicht zerlegt, wiederaufgeladen, kurzgeschlossen, oder Feuer oder Wasser ausgesetzt werden. Bei der Entsorgung die örtlichen Bestimmungen für Sondermüll beachten. Beim Ersetzen der Bereitschafts-oder Systembatterie nur Batterien des Typs verwenden, der in der Ersatzteilliste aufgeführt ist. Der Einsatz falscher Batterien kann zu Entzündung oder Explosion führen.

טלולות המותנה מסוימות מכליות כבאות קתנה, של גיבול מוגדרות. אוניות טולילות התרחנה, לטעון או מטען מוחדר, הרטב, או אט אט או פלומות או פליר או חותם. יש לשלול את הטולילות כדי שיזו החזקנות והוחוקים מוגדרים. יש לשמש רק בטלולות המותנה בושיותם החקלאי המוגדר. שימוש בטוללה אל מוגדרת עלולים להיתר או להפצעות שיטוללה.

Alcune batterie di riserva contengono una piccola quantità di nichel e cadmio. Non smontarle, ricaricarle, gettarle nel fuoco o nell'acqua né cortocircuitarle. Smaltirle secondo la normativa in vigore (DPR 915/82, successive disposizioni e disposizioni locali). Quando si sostituisce la batteria dell'RTC (real time clock) o la batteria di supporto, utilizzare soltanto i tipi inseriti nell'appropriato Catalogo parti. L'impiego di una batteria non adatta potrebbe determinare l'incendio o l'esplosione della batteria stessa.

予備バッテリーの中には少量のニッケルとカドミウムが含まれているものがあります。したがって、予備バッテリーの分解、再充電、火または水の中への投棄、またはショートさせることは決して行わないでください。バッテリーを廃棄する場合は地方自治体の条例に従ってください。適切なパート・リストにあるバッテリーだけを使用してください。誤ったバッテリーを使用すると、バッテリーが発火したり、爆発したりすることがあります。

Algunas baterías de reserva contienen una pequeña cantidad de níquel y cadmio. No las desmonte, ni recargue, ni las eche al fuego o al agua ni las cortocircuite. Deséchelas tal como dispone la normativa local. Utilice sólo baterías que se encuentren en la lista de piezas. La utilización de una batería no apropiada puede provocar la ignición o explosión de la misma.

### Safety notice 3

#### ⚠ DANGER

The battery pack contains small amounts of nickel. Do not disassemble it, throw it into fire or water, or short-circuit it. Dispose of the battery pack as required by local ordinances or regulations. Use only the battery in the appropriate parts listing when replacing the battery pack. Use of an incorrect battery can result in ignition or explosion of the battery.

La batterie contient du nickel. Ne la démontez pas, ne l'exposez ni au feu ni à l'eau. Ne la mettez pas en court-circuit. Pour la mettre au rebut, conformez-vous à la réglementation en vigueur. Lorsque vous remplacez la batterie, veillez à n'utiliser que les modèles cités dans la liste de pièces détachées adéquate. En effet, une batterie inappropriée risque de prendre feu ou d'exploser.

Akkus enthalten geringe Mengen von Nickel. Sie dürfen nicht zerlegt, wiederaufgeladen, kurzgeschlossen, oder Feuer oder Wasser ausgesetzt werden. Bei der Entsorgung die örtlichen Bestimmungen für Sondermüll beachten. Beim Ersetzen der Batterie nur Batterien des Typs verwenden, der in der Ersatzteilliste aufgeführt ist. Der Einsatz falscher Batterien kann zu Entzündung oder Explosion führen.

מארז הסוללה מכיל כמות קטנה של ניקל וandiומס. אין מארז או מארז סוללה. להשליך אתו לאש או מים או לבלבב אותו. יש לשליך אתו סוללה סוללה. כדי שתהיקנו מארז סוללה בטלוליה. יש להשמט מארז סוללה והוחיקם בתקנות. יש להשמט מארז סוללה בטעות. מארז סוללה. שמש בטלוליה לא תמיוחה עלל. לורום להנחתה או הטעינה של הסוללה.

La batteria contiene piccole quantità di nichel. Non smontarla, gettarla nel fuoco o nell'acqua né cortocircuitarla. Smaltrala secondo la normativa in vigore (DPR 915/82, successive disposizioni e disposizioni locali). Quando si sostituisce la batteria, utilizzare soltanto i tipi inseriti nell'appropriato Catalogo parti. L'impiego di una batteria non adatta potrebbe determinare l'incendio o l'esplosione della batteria stessa.

パッテリー・パックには少量のニッケルが含まれています。パッテリー・パックを分解したり、火または水の中に投げ込んだり、ショートさせないでください。パッテリー・パックの廃棄にあたっては、地方自治体の条例または規則に従ってください。パッテリー・パックを交換するときは、適切なパーツ・リストにあるパッテリーだけを使用してください。誤ったパッテリーを使用すると、パッテリーが発火したり、爆発したりすることがあります。

Las baterías contienen pequeñas cantidades de níquel. No las desmonte, ni recargue, ni las eche al fuego o al agua ni las cortocircuite. Deséchelas tal como dispone la normativa local. Utilice sólo baterías que se encuentren en la lista de piezas al sustituir la batería. La utilización de una batería no apropiada puede provocar la ignición o explosión de la misma.

#### **Safety notice 4**

##### **⚠ DANGER**

The lithium battery can cause a fire, an explosion, or a severe burn. Do not recharge it, remove its polarized connector, disassemble it, heat it above 100°C (212°F), incinerate it, or expose its cell contents to water. Dispose of the battery as required by local ordinances or regulations. Use only the battery in the appropriate parts listing. Use of an incorrect battery can result in ignition or explosion of the battery.

La pile de sauvegarde contient du lithium. Elle présente des risques d'incendie, d'explosion ou de brûlures graves. Ne la rechargez pas, ne retirez pas son connecteur polarisé et ne la démontez pas. Ne l'exposez pas à une température supérieure à 100°C, ne la faites pas brûler et n'en exposez pas le contenu à l'eau. Mettez la pile au rebut conformément à la réglementation en vigueur. Une pile inappropriée risque de prendre feu ou d'exploser.

Die Systembatterie ist eine Lithiumbatterie. Sie kann sich entzünden, explodieren oder schwere Verbrennungen hervorrufen. Batterien dieses Typs dürfen nicht aufgeladen, zerlegt, über 100 C erhitzt oder verbrannt werden. Auch darf ihr Inhalt nicht mit Wasser in Verbindung gebracht oder der zur richtigen Polung angebrachte Verbindungsstecker entfernt werden. Bei der Entsorgung die örtlichen Bestimmungen für Sondermüll beachten. Beim Ersetzen der Batterie nur Batterien des Typs verwenden, der in der Ersatzteilliste aufgeführt ist. Der Einsatz falscher Batterien kann zu Entzündung oder Explosion führen.

סוללה תיליה מיליה לרום שריפה, הרכבתה או לזרעיה. אין לטוונ אוותחה ולסלק את המרכיבים שעה. לא רצוק אוורה או למטרות כל מטריה. העורר על 100 מעלות לזייה, או לזרעיה תא הסוללה אין לשלוחו או גונן תחת אמצעים. ש. שלשושה קר בדוללה בתקנות והוקם התקנות המקומיים. ש. להשמש קר בדוללה המומומת ברישון חקלוקם המומאיים. מטוש בטלול אחרות ליל גדור לאבון שירפה או החטאות.

La batteria di supporto e una batteria al litio e può incendiarsi, esplodere o procurare gravi ustioni. Evitare di ricaricarla, smontarne il connettore polarizzato, smontarla, riscalarla ad una temperatura superiore ai 100 gradi centigradi, incenderla o gettarla in acqua. Smaltirla secondo la normativa in vigore (DPR 915/82, successive disposizioni e disposizioni locali). L'impiego di una batteria non adatta potrebbe determinare l'incendio o l'esplosione della batteria stessa.

リチウム・バッテリーは、火災、爆発、または重症のやけどを引き起こすことがあります。バッカアップ・バッテリーの充電、その極性コネクターの取り外し、バッテリー本体の分解、100 °C (212 °F) 以上への加熱、焼却、電池の中身を水に浸すことはしないでください。バッテリーを廃棄する場合は地方自治体の条例に従ってください。適切なバーツ・リストにあるバッテリーだけを使用してください。誤ったバッテリーを使用すると、バッテリーが発火したり、爆発したりすることがあります。

La batería de repuesto es una batería de litio y puede provocar incendios, explosiones o quemaduras graves. No la recargue, ni quite el conector polarizado, ni la desmonte, ni caliente por encima de los 100°C (212°F), ni la incinere ni exponga el contenido de sus celdas al agua. Deséchela tal como dispone la normativa local.

### **Safety notice 5**

If the LCD breaks and the fluid from inside the LCD gets into your eyes or on your hands, immediately wash the affected areas with water at least for 15 minutes. Seek medical care if any symptoms caused by the fluid are present after washing.

Si le panneau d'affichage à cristaux liquides se brise et que vous recevez dans les yeux ou sur les mains une partie du fluide, rincez-les abondamment pendant au moins quinze minutes. Consultez un médecin si des symptômes persistent après le lavage.

Die Leuchtstoffröhre im LCD-Bildschirm enthält Quecksilber. Bei der Entsorgung die örtlichen Bestimmungen für Sondermüll beachten. Der LCD-Bildschirm besteht aus Glas und kann zerbrechen, wenn er unsachgemäß behandelt wird oder der Computer auf den Boden fällt. Wenn der Bildschirm beschädigt ist und die darin befindliche Flüssigkeit in Kontakt mit Haut und Augen gerät, sollten die betroffenen Stellen mindestens 15 Minuten mit Wasser abgespült und bei Beschwerden anschließend ein Arzt aufgesucht werden.

אם מסך היגיון הנזלי (LCD) שבר והוזל מוחך הפסך בא במגע עם יייכם או לילכם, שטוף תוא האורום הנגעים מיד מים במשך 15 דקות לפחות. נס לבכנת שורה ורואה אם סימני הנוועים מהתגע עם גוףך ממשיכם לאחר שטוחה.

Nel caso che caso l'LCD si dovesse rompere ed il liquido in esso contenuto entrasse in contatto con gli occhi o le mani, lavare immediatamente le parti interessate con acqua corrente per almeno 15 minuti; poi consultare un medico se i sintomi dovessero permanere.

LCD が破損し、LCD 中の液体が目に入ったり、手に触れたりした場合は、液体が触れた部分を少なくとも 15 分間洗い流してください。洗い流した後に、液体によって何らかの症状が現れた場合は、医師の治療を受けてください。

Si la LCD se rompe y el fluido de su interior entra en contacto con sus ojos o sus manos, lave inmediatamente las áreas afectadas con agua durante 15 minutos como mínimo. Obtenga atención médica si se presenta algún síntoma del fluido después de lavarse.

**Safety notice 6****⚠ DANGER**

To avoid shock, do not remove the plastic cover that protects the lower part of the inverter card.

Afin d'éviter tout risque de choc électrique, ne retirez pas le cache en plastique protégeant la partie inférieure de la carte d'alimentation.

Aus Sicherheitsgründen die Kunststoffabdeckung, die den unteren Teil der Spannungswandlerplatine umgibt, nicht entfernen.

כדי למנוע חשמל מוגבר, אינן להסיר את מסכת הפלטטי  
המנוגן על חלקי החיבורו של בקרוטיס ההפוך.

Per evitare scosse elettriche, non rimuovere la copertura in plastica che avvolge la parte inferiore della scheda invertitore.

感電を防ぐため、インバーター・カードの下部を保護しているプラスチック・カバーを外さないでください。

Para evitar descargas, no quite la cubierta de plástico que rodea la parte baja de la tarjeta invertida.

**Safety notice 7****⚠ DANGER**

Though the main batteries have low voltage, a shorted or grounded battery can produce enough current to burn personnel or combustible materials.

Bien que le voltage des batteries principales soit peu élevé, le court-circuit ou la mise à la masse d'une batterie peut produire suffisamment de courant pour brûler des matériaux combustibles ou causer des brûlures corporelles graves.

Obwohl Hauptbatterien eine niedrige Spannung haben, können sie doch bei Kurzschluß oder Erdung genug Strom abgeben, um brennbare Materialien zu entzünden oder Verletzungen bei Personen hervorzurufen.

אך שהסוללות הראשיות הן בעלות מתח נמוך, סוללה  
מוקצנת או מוגrounded עליה להיפוך ו/or מספק לוגרמת  
כיווית או ליצירת חומם או דיליקוי.

Sebbene le batterie di alimentazione siano a basso voltaggio, una batteria in corto circuito o a massa può fornire corrente sufficiente da bruciare materiali combustibili o provocare ustioni ai tecnici di manutenzione.

メイン・バッテリーの電圧は低くても、ショートしたり、接地したバッテリーが、作業者にやけどを負わせたり、可燃物を燃やすだけの電流を発生させる場合があります。

Aunque las baterías principales tienen un voltaje bajo, una batería cortocircuitada o con contacto a tierra puede producir la corriente suficiente como para quemar material combustible o provocar quemaduras en el personal.

### **Safety notice 8**

#### **⚠ DANGER**

Before removing any FRU, turn off the computer, unplug all power cords from electrical outlets, remove the battery pack, and then disconnect any interconnecting cables.

Avant de retirer une unité remplaçable en clientèle, mettez le système hors tension, débranchez tous les cordons d'alimentation des socles de prise de courant, retirez la batterie et déconnectez tous les cordons d'interface.

Die Stromzufuhr muß abgeschaltet, alle Stromkabel aus der Steckdose gezogen, der Akku entfernt und alle Verbindungskabel abgenommen sein, bevor eine FRU entfernt wird.

לפניהם של כשליה, יש לכבות את המחשב, לנתק את כל כבלי החשמל טעוני החישול, להוציא את אמצעי הטעינה, וא' לנתק כבלי היברדו או רירם אם יש כאלה.

Prima di rimuovere qualsiasi FRU, spegnere il sistema, scollegare dalle prese elettriche tutti i cavi di alimentazione, rimuovere la batteria e poi scollegare i cavi di interconnessione.

FRUを取り外す前に、ThinkPad の電源を切って、すべての電源コードをコンセントから外してください。次に、バッテリー・パックを外し、相互接続ケーブルを外してください。

Antes de quitar una FRU, apague el sistema, desenchufe todos los cables de las tomas de corriente eléctrica, quite la batería y, a continuación, desconecte cualquier cable de conexión entre dispositivos.

## Laser compliance statement

Some models of Lenovo computer are equipped from the factory with an optical storage device such as a CD-ROM drive or a DVD-ROM drive. Such devices are also sold separately as options. If one of these drives is installed, it is certified in the U.S. to conform to the requirements of the Department of Health and Human Services 21 Code of Federal Regulations (DHHS 21 CFR) Subchapter J for Class 1 laser products. Elsewhere, the drive is certified to conform to the requirements of the International Electrotechnical Commission (IEC) 825 and CENELEC EN 60 825 for Class 1 laser products.

If a CD-ROM drive, a DVD-ROM drive, or another laser device is installed, note the following:

### **CAUTION**

Use of controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.

O uso de controles, ajustes ou desempenho de procedimentos diferentes daqueles aqui especificados pode resultar em perigosa exposição à radiação.

凡未在这里指明的任何控制用法、调整、行为，  
都会导致严重后果。

Pour éviter tout risque d'exposition au rayon laser, respectez les consignes de réglage et d'utilisation des commandes, ainsi que les procédures décrites.

Werden Steuer- und Einstellelemente anders als hier festgesetzt verwendet, kann gefährliche Laserstrahlung auftreten.

Az itt teljesítő eljárásoktól, beállításoktól és vezérlésekktől elérhető lézersugárzás veszélye miatt kockázatos !

L'utilizzo di controlli, regolazioni o l'esecuzione di procedure diverse da quelle specificate possono provocare l'esposizione a.

Использование элементов настройки и выполнение процедур иных, чем указано здесь, может привести к опасному радиационному облучению.

Použíteľ kontrôl, úprav alebo iných vykonaní od iných výrobcov, aké je v tomto špecifikované, môžlo by mať za následok nebezpečenstvo vystavenia sa vyzárovaniu.

本書で指定された内容以外の、お客様による整備、調整、または手順を行つた場合、レーザー光の放射の危険があります。

El uso de controles o ajustes o la ejecución de procedimientos distintos de los aquí especificados puede provocar la exposición a radiaciones peligrosas.

Opening the CD-ROM drive, the DVD-ROM drive, or any other optical storage device could result in exposure to hazardous laser radiation. There are no serviceable parts inside those drives. **Do not open.**

A CD-ROM drive, a DVD-ROM drive, or any other storage device installed may contain an embedded Class 3A or Class 3B laser diode. Note the following:

**DANGER**

Emits visible and invisible laser radiation when open. Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam.

Radiação por raio laser ao abrir. Não olhe fixo no feixe de luz, não olhe diretamente por meio de instrumentos ópticos e evite exposição direta com o feixe de luz.

开启时会有激光发射时, 请勿盯视激光光束, 请勿直接查看  
视觉仪器, 并且避免直接接触在激光光束之中。

Rayonnement laser si carter ouvert. Évitez de fixer le faisceau, de le regarder directement avec des instruments optiques, ou de vous exposer au rayon.

Laserstrahlung bei geöffnetem Gerät. Nicht direkt oder über optische Instrumente in den Laserstrahl sehen und den Strahlungsbereich meiden.

Kinyitáskor lézersugár ! Ne nézzen bele se szabad szemmel, se optikai eszközökkel. Kerülje a sugárnyalábbal való érintkezést!

Aprendo l'unità vengono emesse radiazioni laser. Non fissare il fascio, non guardarlo direttamente con strumenti ottici e evitare l'esposizione diretta al fascio.

Открывая, берегитесь лазерного излучения.  
Не смотрите на луч, не разглядывайте его  
с помощью оптических инструментов, а также  
избегайте прямого воздействия лазерного луча.

Ked je laserová jednotka otvorená. Vyhnite sa priamemu  
pohľadu a nehládte priamo s optickými nástrojmi do lúča  
a vyhnite sa priamemu vystaveniu lúčov.

開けるとレーザー光が放射されます。光線を見つめたり、光学機械を使って直接見たりしないでください。

Radiación láser al abrir. No mire fijamente ni examine con instrumental óptico el  
haz de luz. Evite la exposición directa al haz.

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## Important service information

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This chapter presents the following important service information:

- “Strategy for replacing FRUs” on page 16
  - “Strategy for replacing a hard disk drive” on page 17
  - “Important notice for replacing a system board” on page 17
- “Important information about replacing RoHS compliant FRUs” on page 18

**Important:**

BIOS and device driver fixes are customer-installable. The BIOS and device drivers are posted on the customer support site:  
<http://support.lenovo.com>.

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## Strategy for replacing FRUs

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**Before replacing parts:**

Make sure that all software fixes, drivers, and BIOS downloads are installed before replacing any FRUs listed in this manual.

After a system board is replaced, ensure that the latest BIOS is loaded to the system board before completing the service action.

To download software fixes, drivers, and BIOS, follow the steps below:

1. Go to <http://support.lenovo.com>.
2. Enter the serial number or select a product or use Lenovo smart downloading.
3. Select the BIOS/Driver/Applications and download.
4. Follow the directions on the screen and install the necessary software.

Use the following strategy to prevent unnecessary expense for replacing and servicing FRUs:

- If you are instructed to replace an FRU, but the replacement does not solve the problem, reinstall the original FRU before you continue.
- Some computers have both a processor board and a system board. If you are instructed to replace either of them, and replacing one of them does not solve the problem, reinstall that board, and then replace the other one.
- If an adapter or a device consists of more than one FRU, any of the FRUs may be the cause of the error. Before replacing the adapter or device, remove the FRUs one by one to see if the symptoms change. Replace only the FRU that changed the symptoms.

**Attention:** The setup configuration on the computer you are servicing may have been customized. Running Automatic Configuration may alter the settings. Note the current configuration settings (using the View Configuration option); then, when service has been completed, verify that those settings remain in effect.

## **Strategy for replacing a hard disk drive**

Always try to run a low-level format before replacing a hard disk drive. This will cause all customer data on the hard disk to be lost. Make sure that the customer has a current backup of the data before performing this action.

**Attention:** The drive startup sequence in the computer you are servicing may have been changed. Be extremely careful during write operations such as copying, saving, or formatting. If you select an incorrect drive, data or programs can be overwritten.

## **Important notice for replacing a system board**

Some components mounted on a system board are very sensitive. Improper handling can cause damage to those components, and may cause a system malfunction.

**Attention:** When handling a system board:

- Do not drop the system board or apply any excessive force to it.
- Avoid rough handling of any kind.
- Avoid bending the system board and hard pushing to prevent cracking at each BGA (Ball Grid Array) chipset.

## Important information about replacing RoHS compliant FRUs

**RoHS, The Restriction of Hazardous Substances in Electrical and Electronic Equipment Directive (2002/95/EC)** is a European Union legal requirement affecting the global electronics industry. RoHS requirements must be implemented on Lenovo products placed on the market after June 2006. Products on the market before June 2006 are not required to have RoHS compliant parts. If the original FRU parts are non-compliant, replacement parts can also be non-compliant. In all cases if the original FRU parts are RoHS compliant, the replacement part must also be RoHS compliant.

**Note:** RoHS and non-RoHS FRU part numbers with the same fit and function are identified with unique FRU part numbers.

Lenovo plans to transit to RoHS compliance well before the implementation date and expects its suppliers to be ready to support Lenovo's requirements and schedule in the EU. Products sold in 2005 and 2006 will contain some RoHS compliant FRUs. The following statement pertains to these products and any product Lenovo produces containing RoHS compliant FRUs.

RoHS compliant FRUs have unique FRU part numbers. Before or after the RoHS implementation date, failed RoHS compliant parts must always be replaced with RoHS compliant ones, so only the FRUs identified as compliant in the system HMM or direct substitutions for those FRUs may be used.

Products marketed before June 2006		Products marketed after June 2006	
Current or original part	Replacement FRU	Current or original part	Replacement FRU
Non-RoHS	Can be Non-RoHS	Must be RoHS	Must be RoHS
Non-RoHS	Can be RoHS		
Non-RoHS	Can sub to RoHS		
RoHS	Must be RoHS		

**Note:** A direct substitution is a part with a different FRU part number that is automatically shipped by the distribution center at the time of the order.

## General checkout

This chapter presents the following information:

- “What to do first” on page 20
- “Power system checkout” on page 21

Before you go to the checkout, make sure to read the following important notes:

### Important notes:

- **Only certified trained personnel can service the computer.**
- **Before replacing any FRU, read the entire page on removing and replacing FRUs.**
- **Carefully remove screws for reuse when replacing FRUs.**
- **Be extremely careful during such write operations as copying, saving, or formatting.** Drives in the computer that you are servicing sequence might have been altered. If you select an incorrect drive, data or programs might be overwritten.
- **Replace an FRU only with another FRU of the correct model.** When you replace an FRU, make sure that the machine model and the FRU part number are correct by referring to the FRU parts list.
- **An FRU should not be replaced just because of a single, unreproducible failure.** Single failures can occur for a variety of reasons that have nothing to do with a hardware defect, such as cosmic radiation, electrostatic discharge, or software errors. Consider replacing an FRU only when a problem recurs. If you suspect that an FRU is defective, clear the error logs and run the test again. If the error does not recur, do not replace the FRU.
- **Be careful not to replace a nondefective FRU.**

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## What to do first

When you do return an FRU, you must include the following information in the parts exchange form or parts return form that you attach to it:

1. Name and phone number of servicer
2. Date of service
3. Date on which the machine failed
4. Date of purchase
5. Procedure index and page number in which the failing FRU was detected
6. Failing FRU name and part number
7. Machine type, model number, and serial number
8. Customer's name and address

**Note for warranty:** During the warranty period, the customer may be responsible for repair costs if the computer damage was caused by misuse, accident, modification, unsuitable physical or operating environment, or improper maintenance by the customer.

The following is a list of some common items that are not covered under warranty and some symptoms that might indicate that the system was subjected to stress beyond normal use.

Before checking problems with the computer, determine whether the damage is covered under the warranty by referring to the following list:

**The following are not covered under warranty:**

- LCD panel cracked from the application of excessive force or from being dropped
- Scratched (cosmetic) parts
- Distortion, deformation, or discoloration of the cosmetic parts
- Plastic parts, latches, pins, or connectors that have been cracked or broken by excessive force
- Damage caused by liquid spilled into the system
- Damage caused by the improper insertion of a PC Card or the installation of an incompatible card
- Improper disk insertion or use of an optical drive
- Diskette drive damage caused by pressure on the diskette drive cover, foreign material in the drive, or the insertion of a diskette with multiple labels
- Damaged or bent diskette eject button
- Fuses blown by attachment of a nonsupported device
- Forgotten computer password (making the computer unusable)
- Sticky keys caused by spilling a liquid onto the keyboard
- Use of an incorrect AC adapter on laptop products

**The following symptoms might indicate damage caused by nonwarranted activities:**

- Missing parts might be a symptom of unauthorized service or modification.
- If the spindle of a hard disk drive becomes noisy, it may have been subjected to excessive force, or dropped.

## Power system checkout

To verify a symptom, follow the steps below:

1. Turn off the computer.
2. Connect the AC adapter.
3. Make sure that power is supplied when you turn on the computer.
4. Turn off the computer.
5. Disconnect the AC adapter.
6. Make sure that the battery pack supplies power when you turn on the computer.

If you suspect a power problem, see the appropriate power supply checkout:

- “Checking the AC adapter” on page 21
- “Checking operational charging” on page 21

### Checking the AC adapter

You are here because the computer fails only when the AC adapter is used.

- If the power-on indicator does not turn on, check the power cord of the AC adapter for correct continuity and installation.
- If the computer does not charge during operation, go to “Checking operational charging”.

To check the AC adapter, follow the steps below:

1. Unplug the AC adapter cable from the computer.
2. Measure the output voltage at the plug of the AC adapter cable. See the following figure:



Pin	Voltage (V DC)
1	+20
2	0

**Note:** Output voltage for the AC adapter pin No. 2 may differ from the one you are servicing.

3. If the voltage is not correct, replace the AC adapter.
4. If the voltage is acceptable, do the following:
  - Replace the system board.
  - If the problem persists, go to “Lenovo Yoga 2 13” on page 27.

**Note:** Noise from the AC adapter does not always indicate a defect.

### Checking operational charging

To check whether the battery charges properly during operation, use a discharged battery pack or a battery pack that has less than 50% of the total power remaining when installed in the computer.

Perform operational charging. If the battery status indicator or icon is not lit, remove the battery pack and let it return to room temperature. Reinstall the battery pack. If the charge indicator or icon is still off, replace the battery pack.

If the charge indicator is still not lit, replace the system board.

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## Related service information

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This chapter presents the following information:

- “Restoring the factory contents by using OneKey Recovery” on page 23
- “Passwords” on page 24
- “Power management” on page 25

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### Restoring the factory contents by using OneKey Recovery

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#### Restore of factory default

The Lenovo Yoga 2 13 computer comes with pre-installed OneKey Recovery System. In order to save application files and the initial backed up files of the system, the hard disk in a Lenovo computer includes a hidden partition when it is shipped. If you need to restore the system to the point of your first boot up, just enter Lenovo OneKey Recovery System and run **System Recovery**. For details of OneKey Recovery System, see *the User Guide for Lenovo OneKey Recovery system*.

**Note:** This will delete all the new data on the system partition (C drive), which is not recoverable. Make sure to back up your critical data before you perform this action.

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## Passwords

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As many as three passwords may be needed for any Lenovo computer: the power-on password (POP), the hard disk password (HDP), and the supervisor password.

If any of these passwords has been set, a prompt for it appears on the screen whenever the computer is turned on. The computer does not start until the password is entered.

### Power-on password

A power-on password (POP) protects the system from being powered on by an unauthorized person. The password must be entered before an operating system can be booted.

### Hard-disk password

There are two hard-disk passwords (HDPs):

- + User HDP - for the user
- + Master HDP - for the system administrator, who can use it to get access to the hard disk drive even if the user has changed the user HDP

**Attention:** If the user HDP has been forgotten, check whether a master HDP has been set. If it has, it can be used for access to the hard disk drive. If no master HDP is available, neither Lenovo nor Lenov authorized service technicians provide any services to reset either the user or the master HDP, or to recover data from the hard disk drive. The hard disk drive can be replaced for a scheduled fee.

### Supervisor password

A supervisor password protects the system information stored in the BIOS. The user must enter the supervisor password to get access to the BIOS and change the system configuration.

**Attention:** If you forget the password, there is no service procedure to reset the password. The system board must be replaced for a scheduled fee.

## Power management

**Note:** Power management modes are not supported for an APM operating system.

To reduce power consumption, the computer has two power management modes: screen blank and sleep (standby).

### Screen blank state

If the time set on the “Turn off monitor” timer in the operating system expires, the LCD backlight turns off. You can also turn off the LCD backlight by pressing .

To end screen blank state and resume normal operation, press .

### Putting the computer to sleep or shutting it down

When you have finished working with your computer, you can put it to sleep or shut it down.

### Putting your computer to sleep

If you will be away from your computer for only a short time, put the computer to sleep.

When the computer is in sleep mode, you can quickly wake it to resume use, bypassing the startup process.

To put the computer to sleep, do one of the following:

- Close the display lid.
- Press the power button.
- Open the charms bar and then select **Settings**  → **Power**  → **Sleep**.

**Note:** Put your computer to sleep before you move it. Moving your computer while the hard disk drive is spinning can damage the hard disk, causing loss of data.

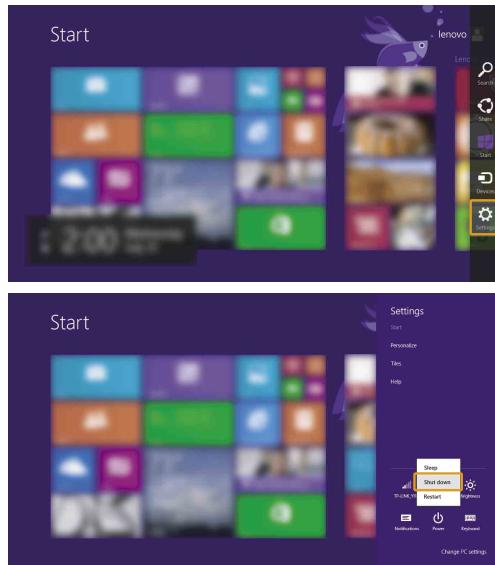
To wake the computer, do the following:

- Press the power button.

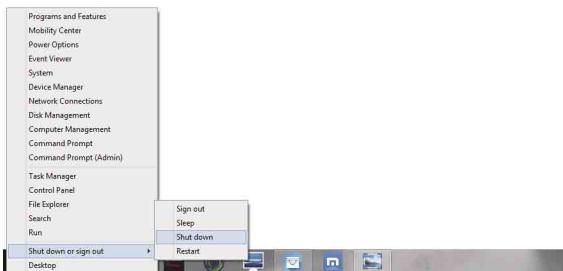
## Shutting down the computer

If you are not going to use your computer for a long time, shut it down. To shut down your computer, do one of the following:

- Open the charms bar and then select **Settings**  → **Power**  → **Shut down**.



- Right-click the Start button in the lower-left corner and select **Shut down or sign out** → **Shut down**.



- On the Start screen, click  and select Shut down.



**Note:** This operation depends on your BIOS settings. Please refer to the actual product.

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## Lenovo S41/U41

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This chapter presents the following product-specific service references and product-specific parts information:

- “Specifications” on page 27
- “Status indicators” on page 29
- “Fn key combinations” on page 30
- “FRU replacement notices” on page 31
- “Removing and replacing an FRU” on page 32
- “Locations” on page 58
- “Parts list” on page 60

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## Specifications

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The following table lists the specifications of the Lenovo S41/U41:

*Table 1. Specifications*

Feature	Description
Processor	See the system properties of your computer, you can do this as follows: Click <b>Control Panel</b> , then click <b>Hardware and Sound</b> , click <b>Device Manager</b> under <b>Devices and Printers</b> and double click <b>Processors</b> .
Bus architecture	<ul style="list-style-type: none"><li>• 1600MHz DDR3 SDRAM(PC3-12800S)</li><li>• PCI Express bus</li><li>• DMI</li></ul>
Graphic Chipset	• Intel Baytrail M
Display	<ul style="list-style-type: none"><li>• 14.0-inch</li></ul>
Standard memory	• DDR3L-1333 MHz/1600 MHz (max 8 GB)
CMOS	<ul style="list-style-type: none"><li>• 256 bytes</li></ul>
SSHD	<ul style="list-style-type: none"><li>• SSHD: 500 GB+8 GB or 1 TB+8 GB</li><li>• HDD: 500 GB/1 TB</li><li>• SSD: 256 GB</li></ul>
Optical drive	• NA
I/O port	<ul style="list-style-type: none"><li>• Combo audio jack × 1</li><li>• HDMI × 1</li><li>• USB 2.0 port × 1, USB 3.0 port × 2</li><li>• 4 in 1 slot × 1 (SD/SDHC/SDXC/MMC)</li></ul>

Table 1. Specifications (continued)

Feature	Description
Audio	<ul style="list-style-type: none"> <li>• 1/8" Stereo Headphone Output &amp; Microphone input combo jack</li> <li>• Integrated Speakers Stereo × 2</li> <li>• Built-in microphone × 2</li> </ul>
PCI Express Mini Card slot	<ul style="list-style-type: none"> <li>• 1 slot</li> </ul>
Bluetooth wireless	<ul style="list-style-type: none"> <li>• Combined in combo card</li> </ul>
Keyboard	<ul style="list-style-type: none"> <li>• 6-Row, Lenovo Keyboard</li> </ul>
Touch pad	<ul style="list-style-type: none"> <li>• Multi-touch type</li> </ul>
Integrated camera	<ul style="list-style-type: none"> <li>• 640 × 480 pixels/1,230 × 720 pixels</li> </ul>
Battery	<ul style="list-style-type: none"> <li>• 3/2 cells, 45 Wh/30 Wh</li> </ul>
AC adapter	<ul style="list-style-type: none"> <li>• 20 V, 45 W/65 W</li> </ul>
Pre-installed operating system	<ul style="list-style-type: none"> <li>• Windows 8.1</li> </ul>

## **Status indicators**

The system status indicators below show the computer status:



*Table 2. Status indicators*

Indicator	Indicator status	Meaning
Battery status indicator	On (solid white)	The battery has more than 20% charge.
	Solid amber	The battery has between 5% and 20% charge.
	Fast blinking amber	The battery has less than 5% charge.
	Slow blinking amber	The battery is being charged. When battery charge reaches 20%, the blinking color changes to white.
	Slow blinking white	The battery has between 20% and 80% charge and is still charging. When the battery reaches 80% charge the light will stop blinking, but charging will continue until the battery is fully charged.
Power status indicator	On (solid white)	The computer is powered on.
	Blinking	The computer is in sleep mode.
	Off	The computer is powered off.

## Fn key combinations

The following table describes the functions of Fn key combinations.

*Table 3. Function key combinations*

 F1	Mutes/unmutes the sound.
 F2	Decreases the volume level.
 F3	Increases the volume level.
 F4	Closes the currently active window.
 F5	Refreshes the desktop or the currently active window.
 F6	Enables/disables the touch pad.
 F7	Enables/disables Airplane mode.
 F8	Displays all currently active apps.
 F9	Turns on/off the backlight of the LCD screen.
 F10	Toggles the display between the computer and an external device.
 F11	Decreases display brightness.
 F12	Increases display brightness.

## FRU replacement notices

This section presents notices related to removing and replacing parts. Read this section carefully before replacing any FRU.

### Screw notices

Loose screws can cause a reliability problem. In the Lenovo computer, this problem is addressed with special nylon-coated screws that have the following characteristics:

- They maintain tight connections.
- They do not easily come loose, even with shock or vibration.
- They are harder to tighten.

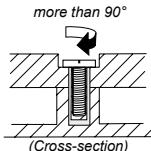
Do the following when you service this machine:

- Keep the screw kit in your tool bag.
- Carefully remove screws for reuse when replacing FRUs.
- Use a torque screwdriver if you have one.

Tighten screws as follows:

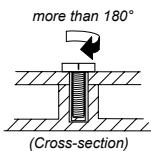
- **Plastic to plastic**

Turn an additional 90° after the screw head touches the surface of the plastic part:



- **Logic card to plastic**

Turn an additional 180° after the screw head touches the surface of the logic card:



- **Torque driver**

If you have a torque screwdriver, refer to the "Torque" column for each step.

- Make sure that you use the correct screws. If you have a torque screwdriver, tighten all screws firmly to the torque shown in the table. **Carefully remove screws for reuse when replacing FRUs. Make sure that all screws are tightened firmly.**
- Ensure torque screwdrivers are calibrated correctly following country specifications.

## Removing and replacing an FRU

This section presents exploded figures with the instructions to indicate how to remove and replace the FRU. Make sure to observe the following general rules:

1. Do not attempt to service any computer unless you have been trained and certified. An untrained person runs the risk of damaging parts.
2. Before replacing any FRU, review "FRU replacement notices" on page 31.
3. Begin by removing any FRUs that have to be removed before the failing FRU. Any of such FRUs are listed at the top of the page. Remove them in the order in which they are listed.
4. Follow the correct sequence in the steps to remove the FRU, as given in the figures by the numbers in square callouts.
5. When turning a screw to replace an FRU, turn it in the direction as given by the arrow in the figure.
6. When removing the FRU, move it in the direction as given by the arrow in the figure.
7. To put the new FRU in place, reverse the removal procedures and follow any of the notes that pertain to replacement. For information about connecting and arranging internal cables, see "Locations" on page 58.
8. When replacing an FRU, use the correct screw as shown in the procedures.

### DANGER

Before removing any FRU, turn off the computer, unplug all power cords from electrical outlets, remove the battery pack, and then disconnect any of the interconnecting cables.

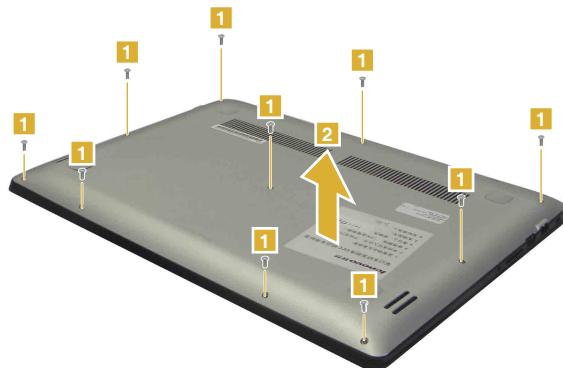
**Attention:** After replacing an FRU, do not turn on the computer until you have made sure that all screws, springs, and other small parts are in place and none are loose inside the computer. Verify this by shaking the computer gently and listening for rattling sounds. Metallic parts or metal flakes can cause electrical short circuits.

**Attention:** The system board is sensitive to, and can be damaged by, electrostatic discharge. Before touching it, establish personal grounding by touching a ground point with one hand or using an electrostatic discharge (ESD) strap (P/N 6405959) to remove potential shock reasons.

## 1010 Base cover

*Figure 1. Removal steps of base cover*

Remove the screws **1**. Then remove the base cover **2**.



Step	Screw (quantity)	Color	Torque
<b>1</b>	M2 × 6 mm, flat-head, nylok-coated (10) Lower to Upper	Silver	1.85 +/- 0.15 kgf-cm

**Note: Applying labels to the base cover**

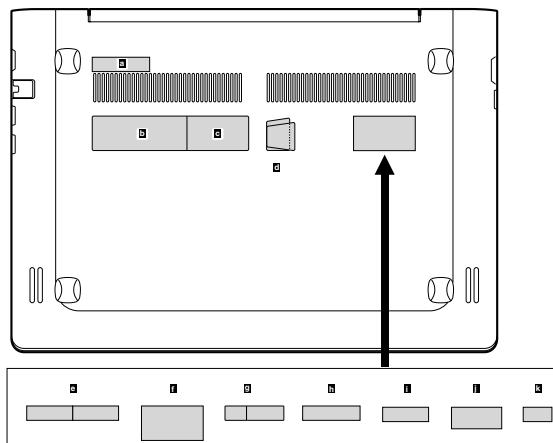
The new base cover FRU is shipped with a kit containing labels of several kinds. When you replace the base cover, you need to apply the following labels:

The following labels need to be peeled off from the old base cover and put on the new base cover.

- a** Barcode label
- b** China Rating label
- c** Rating label print
- d** GML label
- e** BT label for US/CA/TW or WLAN label for US/CA/TW
- f** KR KCC label
- g** Indonesia D side label or Indonesia postel label
- h** BIS label for India
- i** BT label for Israel or WLAN label for Israel
- j** BRAZIL BT or WLAN label for Brazil
- k** WLAN label for South Africa

For some models, you also need to apply one or two FCC labels. Check the old base cover; if it has one or two FCC labels, find duplicates of them in the label kit and apply them to the new base cover.

For the location of each label, refer to the following figure:



## 1020 Battery pack

For access, remove this FRU:

- “1010 Base cover” on page 34

 **DANGER**

Only use the battery specified in the parts list for your computer. Any other battery could ignite or explode.

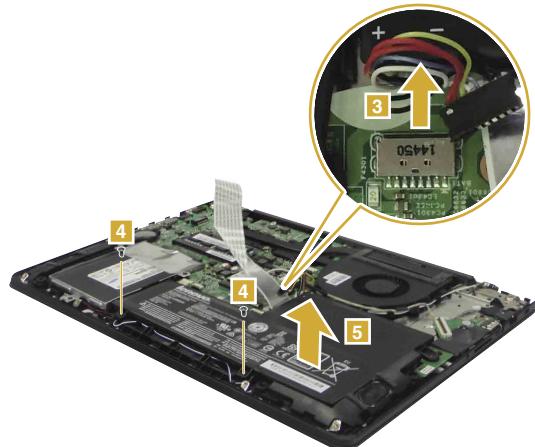
*Figure 2. Removal steps of battery pack*

Detach IO board connector in the direction shown by arrows **1** and **2**.



Figure 2. Removal steps of battery pack (continued)

Unplug the battery connector **3** and remove the screws **4**. Then remove the battery pack in the direction shown by arrow **5**.



Step	Screw (quantity)	Color	Torque
<b>2</b>	M2 x 2.5 mm, flat-head, nylok-coated (2) Bty to Upper	Black	1.85 +/- 0.15 kgf-cm

**When installing:** Make sure that the battery connector is attached firmly.

## 1030 Hard disk drive

For access, remove these FRUs in order:

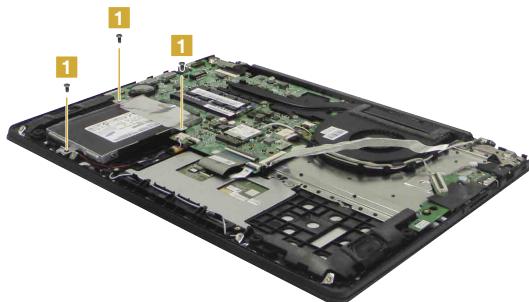
- “1010 Base cover” on page 34
- “1020 Battery pack” on page 36

**Attention:**

- **Do not drop the hard disk drive or apply any physical shock to it.** The hard disk drive is sensitive to physical shock. Improper handling can cause damages and permanent loss of data.
- Before removing the drive, suggest the customer to backup all the information on it if possible.
- Never remove the drive while the system is operating or is in suspend mode.

*Figure 3. Removal steps of hard disk drive*

Remove the frame fixing screws ■.



Step	Screw (quantity)	Color	Torque
■	M2 × 2.5 mm, flat-head, nylok-coated (3) HDD to Upper	Black	1.85 +/- 0.15 kgf-cm

Remove the hard disk drive in the direction shown by arrow 2.



*Figure 3. Removal steps of hard disk drive (continued)*

Remove four screws **3** and detach the metal frame from the hard disk drive.



Step	Screw (quantity)	Color	Torque
<b>3</b>	M3.0 × 4 mm, flat-head, nylokcoated (4) HDD to HDD BRKT	Silver	4 +/- 0.3kgfcm

**When installing:** Make sure that the HDD connector is attached firmly.

## 1040 PCI Express Mini Card for wireless LAN

For access, remove these FRUs in order:

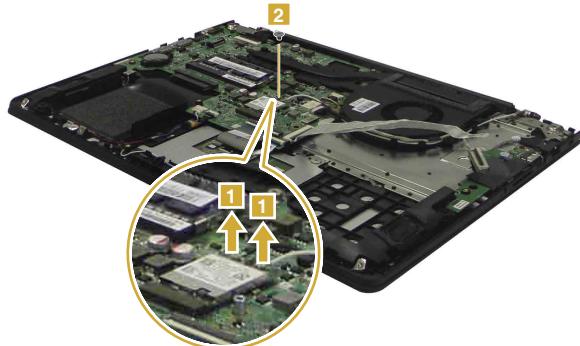
- “1010 Base cover” on page 34
- “1020 Battery pack” on page 36

**Important:**

- The preinstalled WLAN module may only be replaced with a Lenovo approved module in order to comply with FCC and IC regulations. Refer to “Overall” on page 62 for Lenovo part numbers for the approved modules.

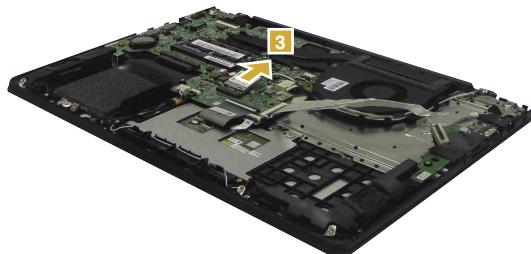
*Figure 4. Removal steps of PCI Express Mini Card for wireless LAN*

Disconnect the two wireless LAN cables (black, white) , and then remove the screw **2**.



Step	Screw (quantity)	Color	Torque
<b>2</b>	M2 × 2.5 mm, flat-head, nylok-coated (1) WLAN to Upper	Black	1.85 +/- 0.15kgfcm

Remove the card in the direction shown by arrow **3**.



*Figure 4. Removal steps of PCI Express Mini Card for wireless LAN(continued)*

In step █, unplug the jacks by using the removal tool antenna RF connector (P/N: 08K7159), or pick up the connectors with your fingers and gently unplug them in the direction shown by the arrows.

**Notes:** The wireless LAN card has 2 cables in step █.

The wireless LAN card in some models might have 3 cables in step █.

**When installing:**

- In models with a wireless LAN card that has two antenna connectors, plug the black cable (1st) (MAIN) into the jack labeled 1, and the white cable (2nd) (AUX) into jack labeled 2 on the card.
- In models with a wireless LAN card that has three antenna connectors, plug the black cable (1st) (MAIN) into the jack labeled 1, the grey cable (3rd) into jack labeled 3, and the white cable (2nd) (AUX) into jack labeled 2 on the card.

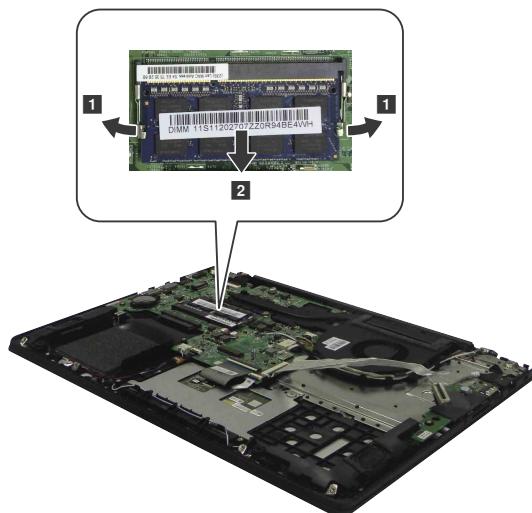
## 1050 DIMM

For access, remove these FRUs in order:

- “1010 Base cover” on page 34
- “1020 Battery pack” on page 36

*Figure 5. Removal steps of DIMM*

Release the two latches on both edges of the socket at the same time in the direction shown by arrows **1**, and then unplug the DIMM in the direction shown by arrow **2**.



**When installing:** Insert the notched end of the DIMM into the socket. Push the DIMM firmly, and pivot it until it snaps into the place. Make sure that it is firmly fixed in the slot and difficult to be moved.

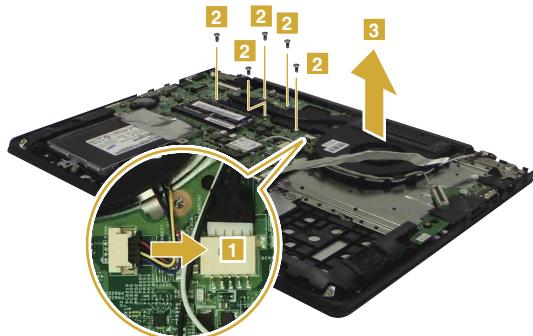
## 1060 Fan assembly and heat sink assembly

For access, remove these FRUs in order:

- “1010 Base cover” on page 34
- “1020 Battery pack” on page 36

*Figure 6. Removal steps of fan assembly and heat sink assembly*

Unplug the fan connector in the direction shown by arrow **1**. Loosen the screws **2**. Lift the fan assembly and heat sink assembly in the direction shown by arrow **3**. Be careful not to damage the connector.



**When installing:** Make sure that the connector is attached firmly.

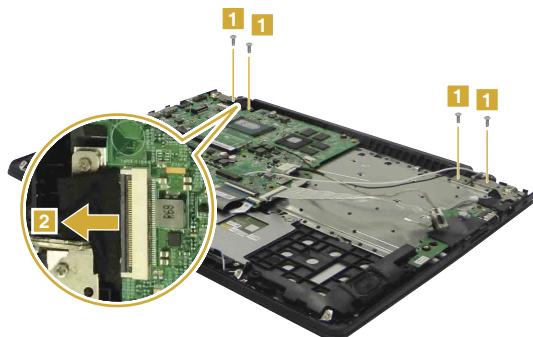
## 1070 LCD unit

For access, remove these FRUs in order:

- “1010 Base cover” on page 34
- “1020 Battery pack” on page 36

*Figure 7. Removal steps of LCD unit*

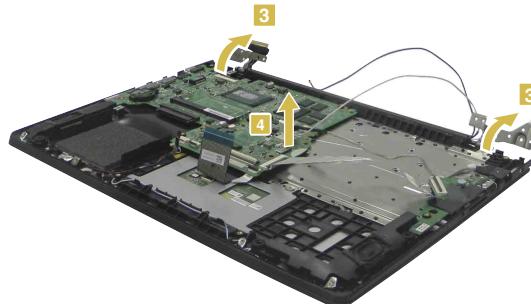
Remove the screws **■**. Detach LCD connector in the direction shown by arrow **2**.



Step	Screw (quantity)	Color	Torque
<b>■</b>	M2 x 4 mm, flat-head, nylok-coated (4) Hinge to Upper	Silver	1.85 +/- 0.15 kgfcm

Figure 7. Removal steps of LCD unit (continued)

Open the hinges **3**, then remove the upper case from the LCD unit in the direction shown by arrow **4**.



## 1080 System board

### **Important notices for handling the system board:**

When handling the system board, bear the following in mind.

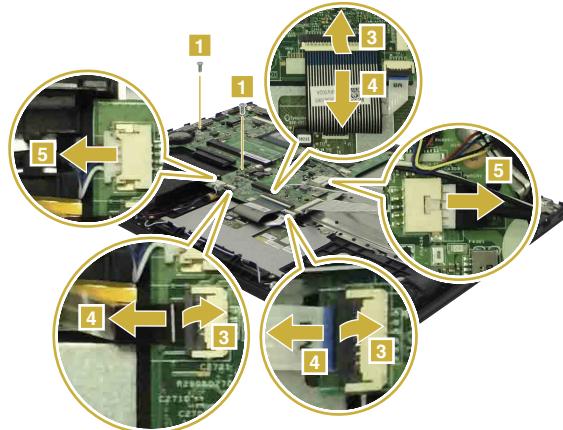
- Be careful not to drop the system board on a bench top that has a hard surface, such as metal, wood, or composite.
- Avoid rough handling of any kind.
- During the whole process, make sure not to drop or stack the system board.
- If you put a system board down, make sure to put it only on a padded surface, such as an ESD mat or conductive corrugated material.

For access, remove these FRUs in order:

- “1010 Base cover” on page 34
- “1020 Battery pack” on page 36
- “1030 Hard disk drive” on page 38
- “1040 PCI Express Mini Card for wireless LAN” on page 40
- “1050 DIMM” on page 42
- “1060 Fan assembly and heat sink assembly” on page 43
- “1070 LCD unit” on page 44

*Figure 8. Removal steps of system board*

Remove screws **1** and **2**. Detach touch pad connector and keyboard connectors in the directions shown by arrows **3** and **4**, unplug speakers and DC-IN connector in the direction shown by arrow **5**.

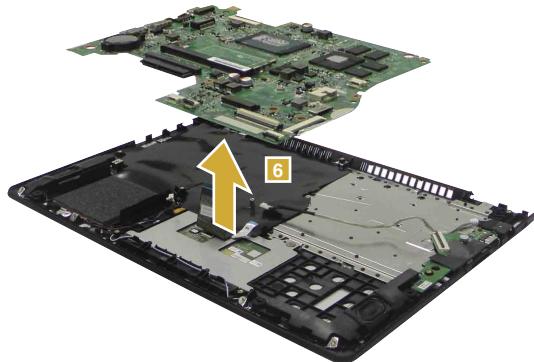


**When installing:** Make sure that all the connectors are attached firmly

Step	Screw (quantity)	Color	Torque
■	M2 x 2.5 mm, flat-head, nylok-coated (1) MB to Upper	Black	1.85 +/- 0.15 kgfcm
■	M2 x 4 mm, flat-head, nylok-coated (1) MB to Upper	Black	1.85 +/- 0.15 kgfcm

*Figure 8. Removal steps of system board (continued)*

Remove the system board in the direction shown by arrow **6**.



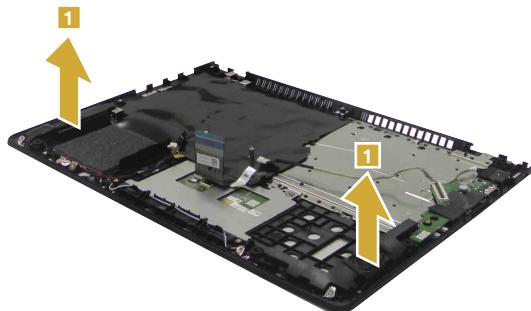
## 1090 Speakers

For access, remove these FRUs in order:

- “1010 Base cover” on page 34
- “1020 Battery pack” on page 36
- “1030 Hard disk drive” on page 38
- “1040 PCI Express Mini Card for wireless LAN” on page 40
- “1050 DIMM” on page 42
- “1060 Fan assembly and heat sink assembly” on page 43
- “1070 LCD unit” on page 44
- “1080 System board” on page 46

*Figure 9. Removal steps of speakers*

Lift the speakers in the direction shown by arrows ■.



**When installing:** Make sure that the connectors are attached firmly.

## 1100 Power assembly, Touchpad module and IO board

For access, remove these FRUs in order:

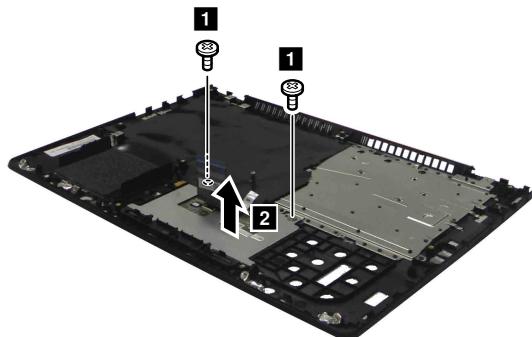
- “1010 Base cover” on page 34
- “1020 Battery pack” on page 36
- “1030 Hard disk drive” on page 38
- “1040 PCI Express Mini Card for wireless LAN” on page 40
- “1050 DIMM” on page 42
- “1060 Fan assembly and heat sink assembly” on page 43
- “1070 LCD unit” on page 44
- “1080 System board” on page 46
- “1090 Speakers” on page 49

*Figure 10. Removal steps of power assembly, touchpad module and IO board*

Remove the power assembly in the direction shown by arrow **1**.



Remove screws **1**, and then remove the touchpad module in the direction shown by arrow **2**.



Step	Screw (quantity)	Color	Torque
<b>1</b>	M2 x 2 mm, flat-head, nylok-coated (2)	Silver	1.85+-0.15 kgfcm

Figure 10. Removal steps of power assembly, touchpad module and IO board (continued)

Remove screw **■**, and then remove the IO board in the direction shown by arrow **2**.



Step	Screw (quantity)	Color	Torque
<b>■</b>	M2 × 4 mm, flat-head, nylok-coated (1)	Silver	1.85+-0.15 kgfcm

## 1110 LCD front bezel

For access, remove these FRUs in order:

- “1010 Base cover” on page 34
- “1020 Battery pack” on page 36
- “1030 Hard disk drive” on page 38
- “1040 PCI Express Mini Card for wireless LAN” on page 40
- “1050 DIMM” on page 42
- “1060 Fan assembly and heat sink assembly” on page 43
- “1070 LCD unit” on page 44
- “1080 System board” on page 46
- “1090 Speakers” on page 49
- “1100 Power assembly, Touchpad module and IO board” on page 50

*Figure 11. Removal steps of LCD front bezel*

Remove LCD bezel screw pad **■** and the screws **2**.



Step	Screw (quantity)	Color	Torque
<b>2</b>	M2 x 2.5 mm, flat-head, nylok-coated (2) LCD Hinge Cap to LCD cover	Black	1.85 +/- 0.15 kgfcm

*Figure 11. Removal steps of LCD front bezel (continued)*

Remove the LCD front bezel in the direction shown by arrows **3**.



## 1120 LCD panel, LCD cable and hinges

For access, remove these FRUs in order:

- “1010 Base cover” on page 34
- “1020 Battery pack” on page 36
- “1030 Hard disk drive” on page 38
- “1040 PCI Express Mini Card for wireless LAN” on page 40
- “1050 DIMM” on page 42
- “1060 Fan assembly and heat sink assembly” on page 43
- “1070 LCD unit” on page 44
- “1080 System board” on page 46
- “1090 Speakers” on page 49
- “1100 Power assembly, Touchpad module and IO board” on page 50
- “1110 LCD front bezel” on page 52

*Figure 12. LCD panel, LCD cable and hinges*

Remove screws ■.



Step	Screw (quantity)	Color	Torque
■	M2.0 x 2.5 mm, flat-head, nylok-coated(4)	Black	1.85+/-0.15 kgfcm

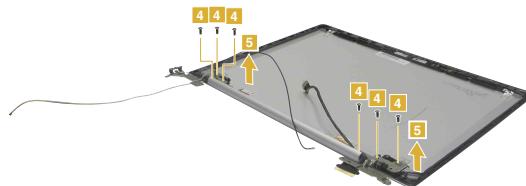
*Figure 12. LCD panel, LCD cable and hinges (continued)*

Disconnect the connector **2**, lift the LCD panel in the direction shown by arrow **3**.



**When installing:** Make sure that the connector is attached firmly.

Remove six screws **4** and the hinges in the direction shown by arrows **5**.



Step	Screw (quantity)	Color	Torque
■	M2.0 x 2 mm, flat-head, nylok-coated(6)	Black	1.85+/-0.15 kgfcm

## 1130 Integrated camera

For access, remove these FRUs in order:

- “1010 Base cover” on page 34
- “1020 Battery pack” on page 36
- “1030 Hard disk drive” on page 38
- “1040 PCI Express Mini Card for wireless LAN” on page 40
- “1050 DIMM” on page 42
- “1060 Fan assembly and heat sink assembly” on page 43
- “1070 LCD unit” on page 44
- “1080 System board” on page 46
- “1090 Speakers” on page 49
- “1100 Power assembly, Touchpad module and IO board” on page 50
- “1110 LCD front bezel” on page 52
- “1120 LCD panel, LCD cable and hinges” on page 54

*Figure 13. Removal steps of integrated camera*

**Note:** The integrated camera is stuck on the top center of the LCD cover.

Unplug the connector , remove the integrated camera from the LCD cover in the direction shown by arrow **2**.



**When installing:** Stick the integrated camera to the top center of the LCD cover and adjust the placement of it to make sure the connector is attached firmly.

## 1140 Antenna assembly and LCD cover

For access, remove these FRUs in order:

- “1010 Base cover” on page 34
- “1020 Battery pack” on page 36
- “1030 Hard disk drive” on page 38
- “1040 PCI Express Mini Card for wireless LAN” on page 40
- “1050 DIMM” on page 42
- “1060 Fan assembly and heat sink assembly” on page 43
- “1070 LCD unit” on page 44
- “1080 System board” on page 46
- “1090 Speakers” on page 49
- “1100 Power assembly, Touchpad module and IO board” on page 50
- “1110 LCD front bezel” on page 52
- “1120 LCD panel, LCD cable and hinges” on page 54
- “1130 Integrated camera” on page 56

*Figure 14. Removal steps of antenna assembly and LCD cover*

**Note:** The integrated camera is stuck on the top center of the LCD cover. Peel off the adhesive tapes securing the antenna boards, release the cables from the cable guide, and then remove the antenna assembly in the direction shown by arrows ■.



**When installing:** Route the antenna cables along the cable guides and secure the antenna boards with adhesive tapes. As you route the cables, make sure that they are not subjected to any tension. Tension could cause the cables to be damaged by the cable guides, or a wire to be broken.

## Locations

### Front view and right-side view

- 1 Integrated camera (on select models)
- 2 Built-in microphones
- 3 Computer display
- 4 Wireless LAN antennas
- 5 Power button

**Note:** For the description of each indicator, see "Status indicators" on page 30.

- 6 Touch pad
- 7 Novo button
- 8 USB 3.0 port
- 9 RJ-45 port
- 10 HDMI port



## Bottom and Left-side view

- 1 Speakers
- 2 Ventilation slots
- 3 Kensington slot
- 4 AC power adapter jack
- 5 USB 2.0 port
- 6 Memory card slot
- 7 Combo audio jack
- 8 Battery status indicator
- 9 Power status indicator



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## Parts list

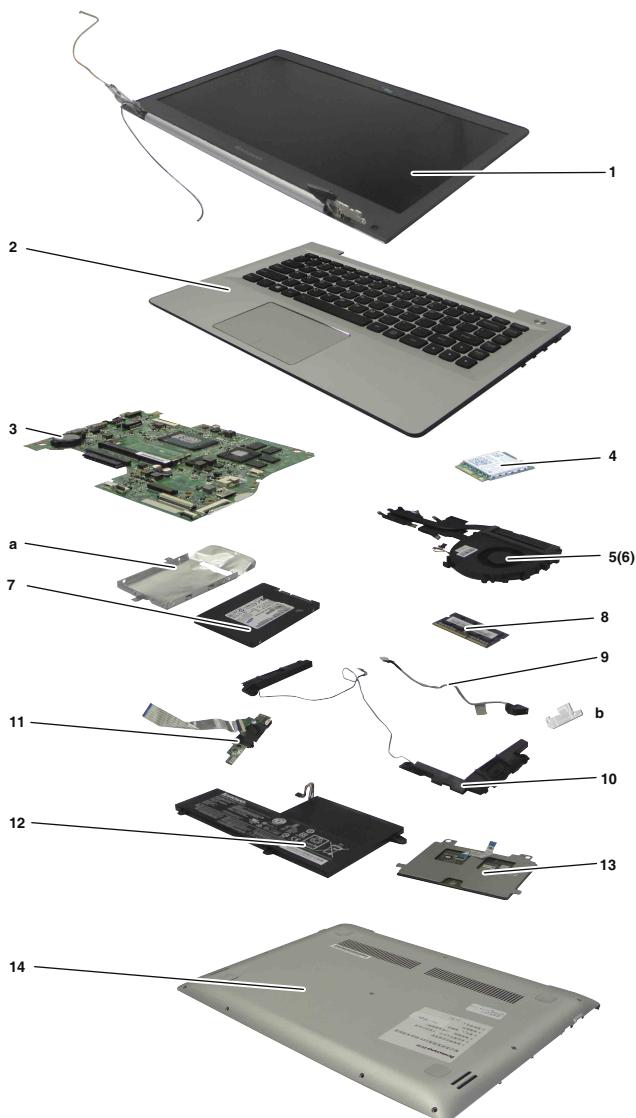
This section presents the following service parts:

- “Overall” on page 61
- “LCD FRUs” on page 66
- “Keyboard” on page 68
- “Miscellaneous parts” on page 72
- “Screw” on page 72
- “AC adapters” on page 73
- “Power cords” on page 74

**Notes:**

- Each FRU is available for all types or models, unless specific types or models are specified.

## Overall



*Table 4. Parts list—Overall*

No.	FRU	FRU no.	CRU ID.	S41-70/ U41-70		S41-35/ S41-75
				HSW BDW		
a-b	See "Miscellaneous parts" on page 72.		N	•	•	
1	LCD unit (see "LCD FRUs" on page 66.)		N	•	•	
2	Upper Case W S41-70 W/KB Black US	5CB0H71431	N	•		
2	Upper Case WS41-70W/KB Black BKL US	5CB0H71452	N	•		
2	Upper Case W S41-70 W/KB Silver US	5CB0H71421	N	•		
2	Upper Case W S41-70 W/KB SLR BKL US	5CB0H71439	N	•		
2	Upper Case W S41-70 W/KB White US	5CB0H71399	N	•		
3	MB W S41-70 NOK I3-5010 UMA BDW	5B20H91081	N	•		
3	MB W S41-70 W8S I3-5010 UMA BDW	5B20H91094	N	•		
3	MB W S41-70 W8P I3-5010 UMA BDW	5B20H91083	N	•		
3	MB W S41-70 NOK I5-5200 UMA BDW	5B20H91075	N	•		
3	MB W S41-70 W8S I5-5200 UMA BDW	5B20H91095	N	•		
3	MB W S41-70 W8P I5-5200 UMA BDW	5B20H91087	N	•		
3	MB W S41-70NOKI7- 5500N16SGT2G B	5B20H91078	N	•		
3	MB W S41-70W8SI7- 5500N16SGT2G B	5B20H91097	N	•		
3	MB W S41-70W8PI7- 5500N16SGT2G B	5B20H91089	N	•		
3	MB W S41-70NOKI5- 5200N16VGM2G B	5B20H91082	N	•		
3	MB W S41-7 W8SI5- 5200N16VGM2G B	5B20H91074	N	•		
3	MB W S41-70W8PI5- 5200N16VGM2G B	5B20H91093	N	•		
3	MB W S41-70NOKI5- 5200N16SGT2G B	5B20H91086	N	•		
3	MB W S41-70W8SI5- 5200N16SGT2G B	5B20H91091	N	•		
3	MB W S41-70W8PI5- 5200N16SGT2G B	5B20H91084	N	•		

Table 4. Parts list—Overall

No.	FRU	FRU no.	CRU ID.	S41-70/ U41-70		S41-35/ S41-75
				HSW BDW		
3	MB W S41-70NOKI7-5500N16VGM2G B	5B20H91076	N	•		
3	MB W S41-70W8SI7-5500N16VGM2G B	5B20H91096	N	•		
3	MB W S41-70W8PI7-5500N16VGM2G B	5B20H91088	N	•		
3	MB W S41-70 NOK I3-4005 UMA HSW	5B20H91080	N	•		
3	MB W S41-70 W8S I3-4005 UMA HSW	5B20H91100	N	•		
3	MB W S41-70 W8P I3-4005 UMA HSW	5B20H91092	N	•		
3	MB W S41-70NOKI3-4005N16V GM2GH	5B20H91085	N	•		
3	MB W S41-70W8SI3-4005N16V GM2GH	5B20H91077	N	•		
3	MB W S41-70W8PI3-4005N16V GM2GH	5B20H91098	N	•		
3	MB W S41-70NOKI3-4030N16V GM2GH	5B20H91090	N	•		
3	MB W S41-70W8SI3-4030N16V GM2GH	5B20H91079	N	•		
3	MB W S41-70W8PI3-4030N16V GM2GH	5B20H91099	N	•		
4	WirelessLan_Non_Intel, Cbt BCM4352 2x2AC+BT4.0 PCIE M.2 WLAN	20200480	N		•	
4	WirelessLan_Non_Intel, Ltn NFA344 2x2AC+BT4.0 PCIE M.2 WLAN V2	SW10A11630	N		•	
4	WirelessLan_Intel, Intel 3160 1x1AC+BT PCIE M.2 ROM WLAN	SW10A11511	N		•	
4	WirelessLan_Non_Intel, Cbt BCM43162 1x1AC+BT4.0 PCIE M.2 WLAN V2	SW10A11586	N	•	•	
4	WirelessLan_Non_Intel, Ltn NFA345 1x1AC+BT4.0 PCIE M.2 WLAN V2	SW10A11628	N	•	•	
4	WirelessLan_Non_Intel, Ltn NFA335 1x1BN+BT4.0 PCIE M.2 WLAN	20200558	N	•	•	
5	Thermal Module W S41-70 DIS	5H40H71451	N	•		
6	Thermal Module W S41-70 UMA	5H40H71401	N	•		

*Table 4. Parts list—Overall (continued)*

No.	FRU	FRU no.	CRU ID.	S41-70/ U41-70		S41-35/ S41-75
				HSW BDW		
7	HDD, ST500LT012 6G 7mm 5.4K 500G HDD	16200383	N	•	•	
7	HDD, WD5000LPCX-24C6HT0	16200395	N	•	•	
7	HDD, HTS545050A7E660 6G 7mm 5.4K 500G HDD	5H20H14223	N	•	•	
7	HDD, TSB MQ01ABF050 6G 7mm 5.4K 500G HDD	16200433	N	•	•	
7	HDD, ST500LM000 6G 7mm 500G+8G SSHD	16200391	N		•	
7	HDD, WD10SPCX-24HWST1 6G 7mm 1T HDD	16200554	N		•	
7	HDD, HTS541010A7E630 7mm 5400rpm 1T HDD	16200658	N		•	
7	HDD, TSB MQ02ABF100 6G 7mm 5.4K 1TB HDD	5H20G09709	N		•	
7	HDD, WD10S21X-24R1BT0 7mm 5400rpm 1TB+8G SSHD	16200681	N		•	
7	SSD, MZYTE256HMHP 2.5" 5mm SSD	5SD0G58918	N		•	
7	SSD, RTNMB256VBM8EWXL 2.5" 256GB 5mm SSD	5SD0G84635	N		•	
8	4GB DDR3L 1600, M471B173EB0-YK0 4G(1*4GBDDR3L1600)	5M30G18425	N	•	•	
8	4GB DDR3L 1600, HMT451S6BFR8A-PB/ RD 4GB DDR3L 1600 4G(1*4GBDDR3L1600)	11202706	N	•	•	
8	4GB DDR3L 1600, RMT3170MN68F9F-1600 N -die/25nm/4Gb Mono 4G(1*4GBDDR3L1600)	5M30G75129	N	•	•	
8	4GB DDR3L 1600, MT8KTF51264HZ- 1G6E1 4GB DDR3L 1600 4G(1*4GBDDR3L1600)	11202125	N	•	•	
8	8GB DDR3L 1600, M471B1G73EB0-YK0 8G(1*8GBDDR3L1600)	5M30G18424	N		•	
8	8GB DDR3L 1600, HMT41GS6BFR8A-PB/ RD 8GB DDR3L 1600 8G(1*8GBDDR3L1600)	11202707	N		•	
8	8GB DDR3L 1600, RMT3160ME68FAF-1600 8GB DDR3L 1600 8G(1*8GBDDR3L1600)	11202450	N		•	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	S41-70/ U41-70		S41-35/ S41-75
				HSW	BDW	
8	8GB DDR3L 1600, MT16KTF1G64HZ-1G6E1 8GB DDR3L 1600 8G(1*8GBDDR3L1600)	11201304	N		•	
9	DC IN Cable W S41-70	5C10H71415	N		•	
10	Speaker W S41-70	5SB0H71443	N		•	
11	I/O Board W S41-70 W/Cable	5C50H71409	N		•	
12	Battery, Tesla SP/A L14M2P21 7.4V30Wh2cell bty	5B10G78612	N	•	•	
12	Battery, Tesla SP/C L14M2P21 7.4V30Wh2cell bty	5B10G78610	N	•	•	
12	Battery, Tesla SP/A L14M3P21 11.1V45Wh3cell bty	5B10G78611	N	•	•	
12	Battery, Tesla SP/C L14M3P21 11.1V45Wh3cell bty	5B10G78609	N	•	•	
13	Touchpad W S41-70 Black W/ Cable	5T60H71457	N		•	
13	Touchpad W S41-70 Silver W/ Cable	5T60H71435	N		•	
13	Touchpad W S41-70 White W/ Cable	5T60H71400	N		•	
13	Touchpad W S41-70 W/C NFC Black	5T60H71424	N		•	
13	Touchpad W S41-70 W/C NFC White	5T60H71450	N		•	
13	Touchpad KGdff0118A	5T60G97154	N	•	•	
13	Touchpad TM03071-001 04x69x1.0 0.5 NFC	5T60G93110	N		•	
13	Touchpad SA469D22H4 04x69x1.0 0.5 NFC	5T60G93109	N		•	
14	Lower Case W S41-70 Black	5CB0H71448	N		•	
14	Lower Case W S41-70 White	5CB0H71404	N		•	
14	Lower Case W S41-70 Silver	5CB0H71437	N		•	
14	Lower Case W S41-70 Red	5CB0H71455	N		•	
14	Lower Case W S41-70 Orange	5CB0H71412	N		•	

## LCD FRUs

In Lenovo S41/U41, the type of LCD is 14.0-inch high definition (HD).

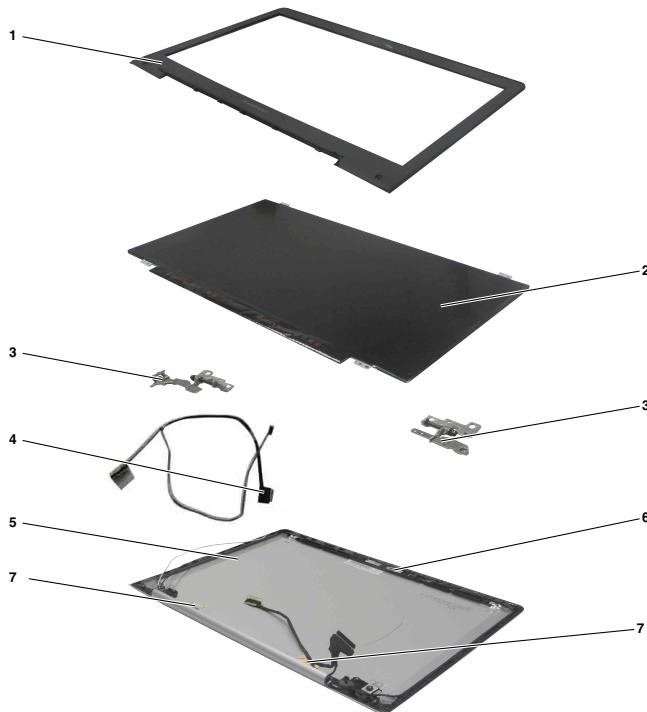


Table 5. Parts list—14.0-inch LCD FRUs

No.	FRU	FRU no.	CRU ID.	S41-70/ U41-70		S41-35/ S41-75
				HSW	BDW	
1	LCD Bezel W S41-70 Black	5B30H71445	N	•		
1	LCD Bezel W S41-70 White	5B30H71402	N	•		
2	Panel, LGD LP140WHU-TPBJ HD AG S LED1 NB LCD	5D10G81620		•	•	
2	Panel, SDC LTN140AT31-401 HD AG S LED1 NB LCD	18200901	N	•	•	
2	Panel, AUO B140XTN02.E HW0A HD AG S NB	5D10G95364	N	•	•	
2	Panel, INX N140BGE-EA3 HD AG S NB	5D10G94548	N	•	•	
2	Panel, AUO B140HTN01.4 FHD AG S LED1 NB LCD	18201579	N		•	
2	Panel, CMI N140HGE-EAA FHD AG S LED1 NB LCD	18201580	N		•	
2	Panel, BOE HB140FH1-401 FHD AG S LED1 NB LCD	18201581	N		•	
3	Hinge W S41-70	5H50H71440	N	•		
4	LCD Cable W S41-70 W/Sensor Board	5C10H71427	N	•		
5	LCD Cover W S41-70 Black	5CB0H71453	N	•		
5	LCD Cover W S41-70 White	5CB0H71410	N	•		
5	LCD Cover W S41-70 Silver	5CB0H71426	N	•		
5	LCD Cover W S41-70 Red	5CB0H71444	N	•		
5	LCD Cover W S41-70 Orange	5CB0H71403	N	•		
6	Camera, BIS BNC416YTK HD NB camera	5C20G89272	N	•	•	
6	Camera, AVC HAA-6D0F03 HD NB camera	5C20G89276	N	•	•	
6	Camera, CCY CNFEH39 HD NB camera	5C20G89264	N	•	•	
6	Camera, BIS BNC7VTKTD 0.3M NB camera	5C20G89273	N	•	•	
6	Camera, LTN 4SF015N2 0.3M NB camera	5C20G89274	N	•	•	
6	Camera, AVC HAA-584B01 0.3M NB camera	5C20G89267	N	•	•	
7	Antenna W S41-70 Main+AUX	5C10H75692	N	•		

## Keyboard

*Table 6. Parts list—Keyboard*

Language		P/N	CRU ID.
S41-70/ U41-70 (BDW)	Chicony Normal	English	SN20G62931
		U.K. English	SN20G62900
		Italian	SN20G62922
		Spanish	SN20G62954
		Turkish	SN20G62974
		Thai	SN20G62905
		Portuguese	SN20G62926
		Latin	SN20G62949
		Canadian Bilingual (En+Fr)	SN20G62970
		Korean	SN20G62901
		Traditional Chinese	SN20G62923
		Russian	SN20G62958
		French	SN20G62975
		German	SN20G62929
		Arabic	SN20G62951
		Brazilian	SN20G62985
		French-Arabic	SN20H31173
		Dutch	SN20G62939
		Greek	SN20G62962
		Hebrew	SN20G62981
		Hungarian	SN20G62911
		Nordic	SN20G62935
		Belgian	SN20G62955
		Icelandic	SN20G62978
		Slovenian	SN20G62910
		Swiss	SN20G62968
Chicony Backlight	Chicony Backlight	US international	SN20G62899
		Czech&Slovak	SN20G62921
		Bulgarian	SN20G62944
		India	SN20G62966
		English	SN20G63065
		English B	SN20G63040
		U.K. English	SN20G63064
		Italian	SN20G62994
		Spanish	SN20G63018
		Turkish	SN20G63043
		Thai	SN20G63021
		Portuguese	SN20G63045
		Latin	SN20G63069
		Canadian Bilingual (En+Fr)	SN20G62999

Table 6. Parts list—Keyboard (continued)

Language		P/N	CRU ID.
Chicony Backlight (continued)	Brazilian	SN20G63052	N
	French-Arabic	SN20H31168	N
	Dutch	SN20G63005	N
	Greek	SN20G63029	N
	Hebrew	SN20G63053	N
	Hebrew	SN20G63075	N
	Nordic	SN20G63007	N
	Belgian	SN20G63031	N
	Icelandic	SN20G63056	N
	Slovenian	SN20G63022	N
	Swiss	SN20G63046	N
	US international	SN20G63070	N
	Czech&Slovak	SN20G62997	N
	Bulgarian	SN20G63023	N
	India	SN20G63047	N
S41-70/ U41-70 (BDW)	English	SN20G62897	N
	U.K. English	SN20G62918	N
	Italian	SN20G62941	N
	Spanish	SN20G62963	N
	Turkish	SN20G62984	N
	Thai	SN20G62916	N
	Portuguese	SN20G62940	N
	Latin	SN20G62983	N
	Canadian Bilingual (En+Fr)	SN20G62913	N
	Korean	SN20G62937	N
	Traditional Chinese	SN20G62960	N
	Russian	SN20G62979	N
	French	SN20G62907	N
	German	SN20G62932	N
	Arabic	SN20G62953	N
	Brazilian	SN20G62972	N
	French-Arabic	SN20H31164	N
	Dutch	SN20G62928	N
Sunrex Normal	Greek	SN20G62950	N
	Hebrew	SN20G62925	N
	Hungarian	SN20G62947	N
	Nordic	SN20G62973	N
	Belgian	SN20G62902	N
	Icelandic	SN20G62924	N
	Slovenian	SN20G62946	N
	Swiss	SN20G62914	N
	US international	SN20G62936	N
	Czech&Slovak	SN20G62959	N
	Bulgarian	SN20G62980	N
	India	SN20G62909	N

*Table 6. Parts list—Keyboard (continued)*

Language		P/N	CRU ID.
S41-70/ U41-70 (BDW)	Sunrex Backlight	English	SN20G63071
		English B	SN20G62998
		U.K. English	SN20G63024
		Italian	SN20G63054
		Spanish	SN20G63077
		Turkish	SN20G63004
		Thai	SN20G63048
		Portuguese	SN20G63078
		Latin	SN20G63006
		Canadian Bilingual (En+Fr)	SN20G63030
		Korean	SN20G63057
		Traditional Chinese	SN20G62987
		Russian	SN20G63009
		French	SN20G63033
		German	SN20G63058
		Arabic	SN20G62989
		Brazilian	SN20G63011
		French-Arabic	SN20H31163
		Dutch	SN20G63013
		Greek	SN20G63037
		Hebrew	SN20G63061
		Hungarian	SN20G62991
		Nordic	SN20G63015
		Belgian	SN20G63016
		Icelandic	SN20G63068
		Slovenian	SN20G62996
		Swiss	SN20G63020
		US international	SN20G63049
		Czech&Slovak	SN20G63073
		Bulgarian	SN20G63001
		India	SN20G63026
S41-70/ U41-70 (HSW)	Chicony Normal	English	SN20G62931
		U.K. English	SN20G62900
		Italian	SN20G62922
		Spanish	SN20G62954
		Turkish	SN20G62974
		Thai	SN20G62905
		Portuguese	SN20G62926
		Latin	SN20G62949
		Canadian Bilingual (En+Fr)	SN20G62970
		Korean	SN20G62901
		Traditional Chinese	SN20G62923
		Russian	SN20G62958
		French	SN20G62975
		German	SN20G62929
		Arabic	SN20G62951

Table 6. Parts list—Keyboard (continued)

Language		P/N	CRU ID.
Chicony Normal (continued)	Dutch	SN20G62939	N
	Greek	SN20G62962	N
	Hebrew	SN20G62981	N
	Hungarian	SN20G62911	N
	Nordic	SN20G62935	N
	Belgian	SN20G62955	N
	Icelandic	SN20G62978	N
	Slovenian	SN20G62910	N
	Swiss	SN20G62968	N
	US international	SN20G62899	N
	Czech&Slovak	SN20G62921	N
	Bulgarian	SN20G62944	N
	India	SN20G62966	N
	English	SN20G62897	N
	U.K. English	SN20G62918	N
	Italian	SN20G62941	N
	Spanish	SN20G62963	N
	Turkish	SN20G62984	N
S41-70/ U41-70 (HSW)	Thai	SN20G62916	N
	Portuguese	SN20G62940	N
	Latin	SN20G62983	N
	Canadian Bilingual (En+Fr)	SN20G62913	N
	Korean	SN20G62937	N
	Traditional Chinese	SN20G62960	N
	Russian	SN20G62979	N
	French	SN20G62907	N
	German	SN20G62932	N
	Arabic	SN20G62953	N
	Brazilian	SN20G62972	N
	French-Arabic	SN20H31164	N
	Dutch	SN20G62928	N
	Greek	SN20G62950	N
	Hebrew	SN20G62925	N
	Hungarian	SN20G62947	N
	Nordic	SN20G62973	N
	Belgian	SN20G62902	N
	Icelandic	SN20G62924	N
	Slovenian	SN20G62946	N
	Swiss	SN20G62914	N
	US international	SN20G62936	N
	Czech&Slovak	SN20G62959	N
	Bulgarian	SN20G62980	N
	India	SN20G62909	N

## Miscellaneous parts

*Table 7. Parts list—Miscellaneous parts*

FRU	P/N	CRU ID.	S41-70/ U41-70	S41-35/ S41-75
System miscellaneous parts: • (a) HDD Bracket W S41-70 • (b) DC IN Bracket W S41-70	5B40H71441 5B40H71420	N	•	
<b>Note:</b> Italicized letters in parentheses are references to the exploded view in "Overall" on page 62.				

## Screw

*Table 8. Parts list—screws*

FRU	P/N	CRU ID.	S41-70/ U41-70	S41-35/ S41-75
Screw Pack W S41-70	5S10H71407	N	•	

## AC adapters

Table 9. Parts list—AC adapters

FRU	P/N	CRU ID.	S41-70/ U41-70		S41-35/ S41-75
			HSW	BDW	
Adapter, Liteon ADLX45NLC3A 20V2.25A adap(CMN)	36200606	*	•	•	
Adapter, Chicony ADLX45NCC3A 20V2.25A adap(CMN)	36200610	*	•	•	
Adapter, Delta ADLX45NDC3A 20V2.25A adap(CMN)	36200602	*	•	•	
Adapter, Liteon ADLX65NLC3A 20V3.25A adap(CMN)	36200607	*	•	•	
Adapter, Chicony ADLX65NCC3A 20V3.25A adap(CMN)	36200611	*	•	•	
Adapter, Delta ADLX65NDC3A 20V3.25A adapter	36200249	*	•	•	

## Power cords

A Lenovo power cord for a specific country or region is usually available only in that country or region:

*Table 10. Parts list—2-pin power cords*

Region	P/N	CRU ID.
CCC	145000600	*
• LINETEK PC323+RVV300/300+LS15 1m		
Argentina	145000599	*
• LINETEK LS15+H03VV-F+LP39 1m		
Denmark	145000598	*
• LINETEK LS15+H03VV-F+LP-38 1m		
Switzerland	145000597	*
• LINETEK LS15+H03VV-F+LP-37 1m		
Brazil	145000596	*
• LINETEK LS15 H03VV-F LP26A 1m		
Israel	145000595	*
• LINETEK LS15+H03VV-F+LP-41 1m		
UL	145000594	*
• LINETEK LP-30B + SPT-2 + LS15 1m		
UK	145000593	*
• LINETEK LP-61L+ H03VV-F+ LS15 1m		
Indian	145000592	*
• LINETEK PE-361+ H05VV-F+ LS15 1m		
Italy	145000591	
• LINETEK LS15+H03VV-F+PE-336 1m		
Korea	145000590	*
• LINETEK LS15+H05VV-F+LP-E04A 1m		
Australia	145000589	*
• LINETEK LS15+H03VV-F+LP-23A 1m		
Taiwan	145000588	*
• LINETEK LS15+VCTF+LP-53 1m		
Japan	145000587	*
• LINETEK LS15+VCTF+LP-54 1m		
Africa	145000586	*
• LINETEK LS15+H03VV-F+PE-364 1m		
CE	145000585	*
• LINETEK LP-34+H03VV-F + LS15 1m		
CCC	145000568	*
• Longwell LSG-31+RVV300/300+LS-18 1m		
Argentina	145000567	*
• Longwell LP-24+H03VV-F+LS-18 1m		
Denmark	145000566	*
• Longwell LP-40+H03VV-F+LS-18 1m		
Switzerland	145000565	*
• Longwell LP-37+H03VV-F+LS-18 1m		
Brazil	145000564	*
• Longwell LP-46+H03VV-F+LS-18 1m		

Table 10. Parts list—2-pin power cords (continued)

Region	P/N	CRU ID.
Israel	145000563	*
• Longwell LP-41+H03VV-F+LS-18 1m		
UL	145000562	*
• Longwell LP-30B+SPT-2 18AWG+LS-18 1m		
UK	145000561	*
• Longwell LP-61L+H03VV-F+LS-18 1m		
Indian	145000560	*
• Longwell LP-67+BIS+LS-18 1m		
Italy	145000559	*
• Longwell LP-22+H03VV-F+LS-18 1m		
Korea	145000558	*
• Longwell LP-486+KTLH03VV-F+LS-5 1m		
Australia	145000557	*
• Longwell LP-23A+LFC-3R+LS-18 1m		
Taiwan	145000556	*
• Longwell LP-71+VCTF+LS-33 1m		
Japan	145000555	*
• Longwell LP-54+VCTF+LS-18 1m		
Africa	145000554	*
• Longwell LP-39+H03VV-F+LS-18 1m		
CE	145000553	*
• Longwell LP-34A+H03VV-F+LS-18 1m		
CCC	145000538	*
• VOLEX GB10S3+RVV 300/500+VAC5S 1m		
UL	145000537	*
• Volex US15S3+SPT-2 +VAC5S 1m		
Italy	145000535	*
• VOLEX IT10S3+HO3VV-F+VAC5S 1m		
Denmark	145000534	*
• VOLEX MP233D+H03VV-F+VAC5S 1m		
Korea	145000533	*
• VOLEX M2511+KETI IEC+VAC5S 1m		
Australia	145000532	*
• VOLEX AU10S3+H03VV-F+VAC5S 1m		
Taiwan	145000531	*
• VOLEX TW15CS3+VCTF+VAC5S 1m		
Japan	145000530	*
• VOLEX VAC5S+VCTF+M755 1m		
Argentina	145000528	*
• VOLEX VA2073+H03VV-F+VAC5S 1m		
Brazil	145000527	*
• VOLEX CH10S3+H03VV-F+VAC5S 1m		
Israel	145000526	*
• VOLEX SI16S3+H03VV-F+VAC5S 1m		

*Table 10. Parts list—2-pin power cords (continued)*

Region	P/N	CRU ID.
CE	145000525	*
• VOLEX M2511+H03VV-F+VAC5S 1m		
Switzerland	145000524	*
• VOLEX MP232+H03VV-F+VAC5S 1m		
UK	145000605	*
• VOLEX MP5004+H03VV-F+VAC5S 1m		
UK	145500000	*
• lux 0031+H03VV-F 0.75/3C+0011 1m		
CE	145500001	*
• lux 0033+H03VV-F 0.75/3C+0011 1m		
UL	145500002	*
• lux 0014+SPT-2 60°C 18/3C+0016 1m		
CCC	145500003	*
• lux 0036+RVV 300/300 0.75/3C+0002 1m		
Indian	145500004	*
• lux 0046+IS694 0.75/3C+0011 1m		
Japan	145500005	*
• lux 0018(E)+VCTF 0.75/3C+0021 1m		
Australia	145500006	*
• lux 0038+H03VV-F 0.75/3C+0011 1m		
Taiwan	145500007	*
• lux 0019+VCTF 0.75/3C+0021 1m		
Korea	145500008	*
• lux 0033+H03VV-F 0.75/3C+0011 1m		
Italy	145500009	*
• lux 0029+H03VV-F 0.75/3C+0011 1m		
Africa	145500010	*
• lux 0044+H03VV-F 0.75/3C+0011 1m		
Brazil	145500011	*
• lux 0034+H03VV-F 0.75/3C+0011 1m		
Israel	145500012	*
• lux 0041+H03VV-F 0.75/3C+0011 1m		
Switzerland	145500013	*
• lux 0027+H03VV-F 0.75/3C+0011 1m		
Denmark	145500014	*
• lux 0048+H03VV-F 0.75/3C+0011 1m		
Argentina	145500015	*
• lux 0040+H03VV-F 0.75/3C+0011 1m		

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## Notices

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